

=> fil reg

FILE 'REGISTRY' ENTERED AT 18:09:08 ON 13 FEB 2003

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 12 FEB 2003 HIGHEST RN 489395-53-1

DICTIONARY FILE UPDATES: 12 FEB 2003 HIGHEST RN 489395-53-1

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

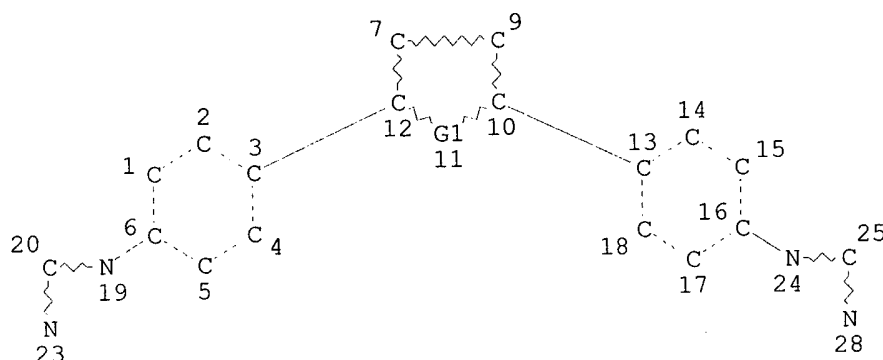
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d sta que l3

L1 STR



Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

VAR G1=O/S/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L3 83 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 119 ITERATIONS

SEARCH TIME: 00.00.01

83 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 18:03:54 ON 13 FEB 2003)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 18:04:02 ON 13 FEB 2003

L1 STR
L2 3 S L1
L3 83 S L1 FUL
SAV L3 SACKEY008/A
L4 12 S L3 AND CARBAMIC ACID
L5 71 S L3 NOT L4

FILE 'HCAOLD' ENTERED AT 18:07:41 ON 13 FEB 2003

L6 0 S L5
L7 0 S L4

FILE 'HCAPLUS' ENTERED AT 18:07:48 ON 13 FEB 2003

L8 5 S L5
L9 4 S L4
L10 5 S L8,L9
L11 4 S L10 AND (BOYKIN ? OR TIDWELL ? OR WILSON ? OR PERFECT ? OR ST
L12 5 S L10,L11

FILE 'USPATFULL, USPAT2' ENTERED AT 18:08:46 ON 13 FEB 2003

L13 1 S L5
L14 1 S L4
L15 1 S L13,L14

FILE 'REGISTRY' ENTERED AT 18:09:08 ON 13 FEB 2003

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 18:09:16 ON 13 FEB 2003
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FILE 'USPAT2' ENTERED AT 18:09:16 ON 13 FEB 2003
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=> d l15 bib abs hitstr

L15 ANSWER 1 OF 1 USPATFULL
AN 2002:280652 USPATFULL
TI Reversed amidines and methods of using for treating, preventing, or
inhibiting leishmaniasis
IN Werbovetz, Karl A., Worthington, OH, UNITED STATES
Brendle, James J., Beltsville, MD, UNITED STATES
Boykin, David W., Atlanta, GA, UNITED STATES
Stephens, Chad E., Villa Rica, GA, UNITED STATES
PI US 2002156098 A1 20021024
AI US 2001-985590 A1 20011105 (9)
PRAI US 2001-288428P 20010504 (60)
US 2000-246330P 20001107 (60)
US 2000-246244P 20001106 (60)
DT Utility
FS APPLICATION
LREP ATTN: MCMR-JA (Ms. Elizabeth Arwine), Office of the Staff Judge
Advocate, U.S. Army Medical Research and Material Command, 504 Scott
Street, Fort Detrick ATTN: MCMR-JA (Ms. Elizabeth, MD, 21702-5012
CLMN Number of Claims: 31
ECL Exemplary Claim: 1
DRWN 9 Drawing Page(s)
LN.CNT 2211
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods for treating, preventing or inhibiting leishmaniasis in a
subject comprising administering to the subject a therapeutically
effective amount of at least one compound having the structural formula
##STR1##

wherein Y is a heteroatom; R.sup.1 and R.sup.2 are independently H or an alkyl, cycloalkyl, heterocycloalkyl, aryl, amino or heteroaryl group; and X.sup.1, X.sup.2, and X.sup.3 are independently H or an alkyl, alkoxy, halo, amino, alkylamino, dialkylamino, acylamino, alkylthio, sulfonyl, cyano, carboxy, alkoxycarbonyl, or carbamoyl group are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

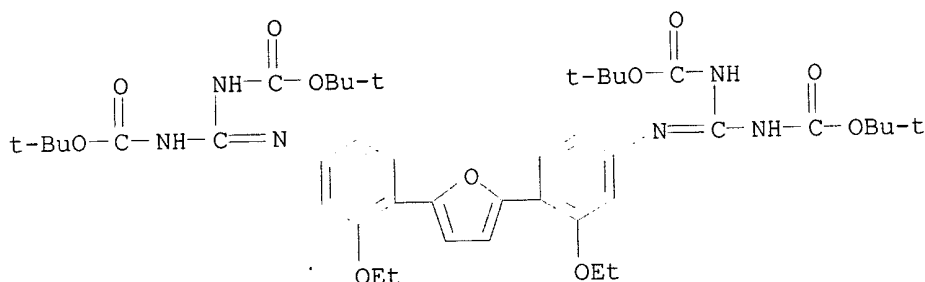
IT 423165-60-0P 423165-63-3P 423165-65-5P

423165-67-7P 423165-70-2P 423165-73-5P

(prepn. and reaction; reversed amidines for treating, preventing, or inhibiting leishmaniasis)

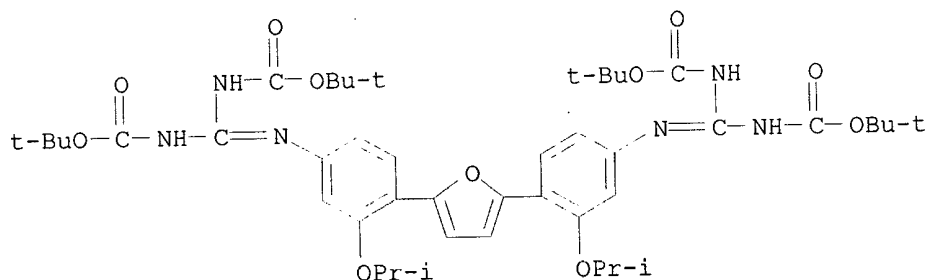
RN 423165-60-0 USPATFULL

CN Carbamic acid, [2,5-furandiylbis[(3-ethoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



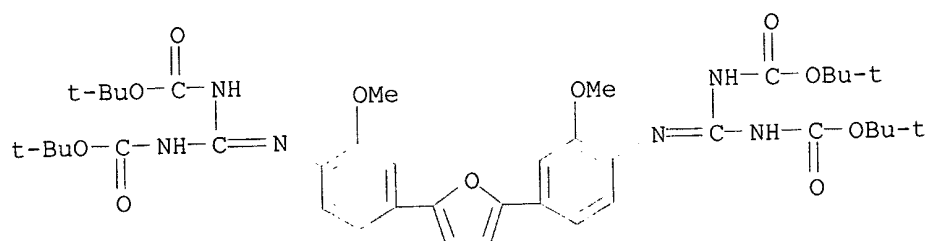
RN 423165-63-3 USPATFULL

CN Carbamic acid, [2,5-furandiylbis[[3-(1-methylethoxy)-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



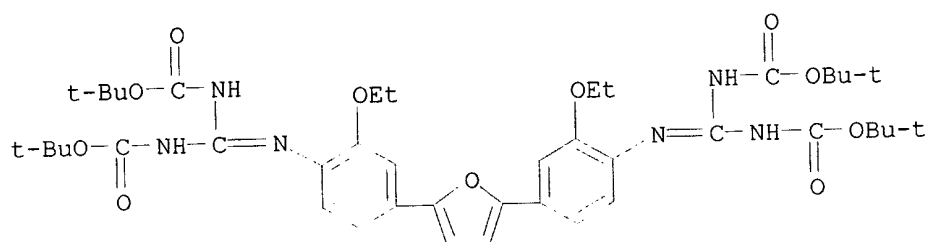
RN 423165-65-5 USPATFULL

CN Carbamic acid, [2,5-furandiylbis[(2-methoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



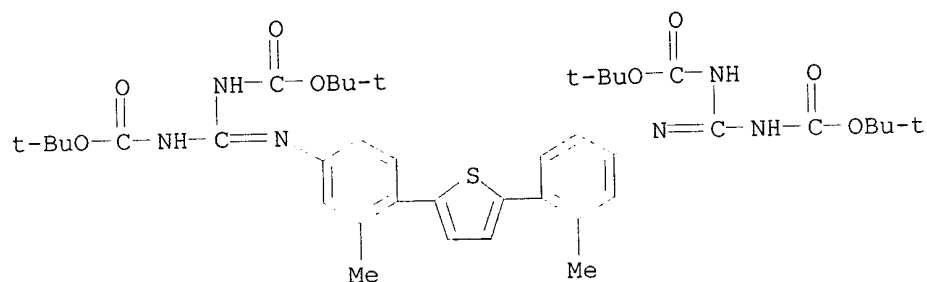
RN 423165-67-7 USPATFULL

CN Carbamic acid, [2,5-furandiylbis[(2-ethoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



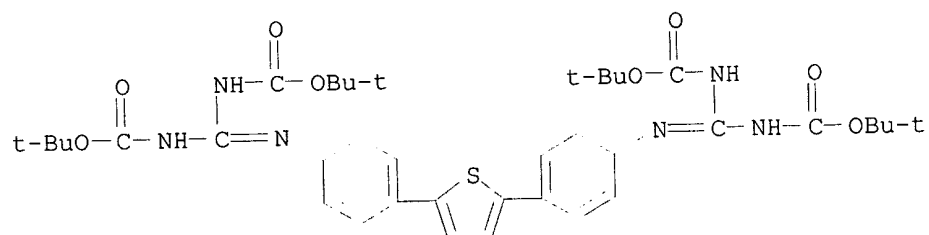
RN 423165-70-2 USPATFULL

CN Carbamic acid, [2,5-thiophenediylbis[(3-methyl-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 423165-73-5 USPATFULL

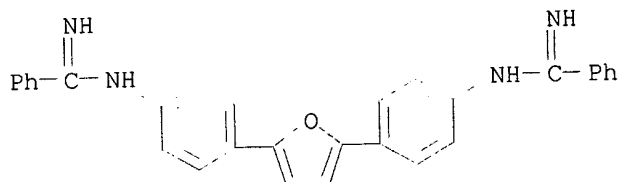
CN Carbamic acid, [2,5-thiophenediylbis(4,1-phenylenenitrilomethanetetrayl)]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



IT 347191-02-0P

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

RN 347191-02-0 USPATFULL

CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
(CA INDEX NAME)

IT 347190-99-2P 347191-03-1P 347191-04-2P

347191-07-5P 347191-09-7P 347191-14-4P

347191-16-6P 347191-18-8P 347191-20-2P

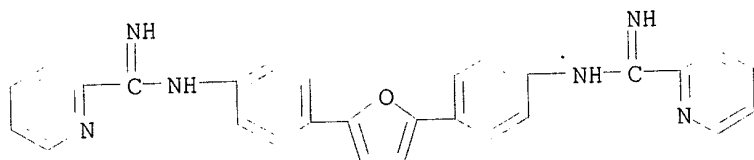
423165-06-4P 423165-09-7P 423165-22-4P

423165-25-7P 423165-28-0P 423165-29-1P

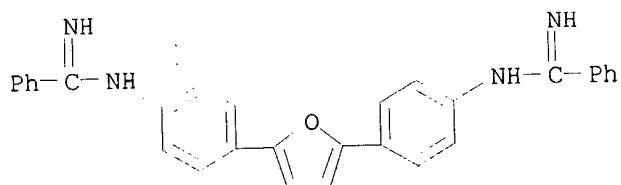
423165-31-5P 423165-62-2P

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

RN 347190-99-2 USPATFULL

CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
(CA INDEX NAME)

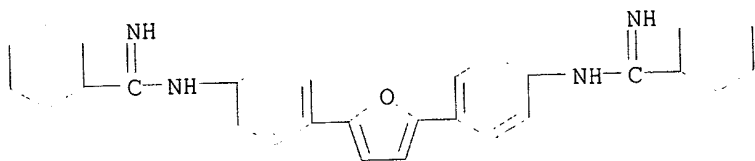
RN 347191-03-1 USPATFULL

CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
dihydrochloride (9CI) (CA INDEX NAME)

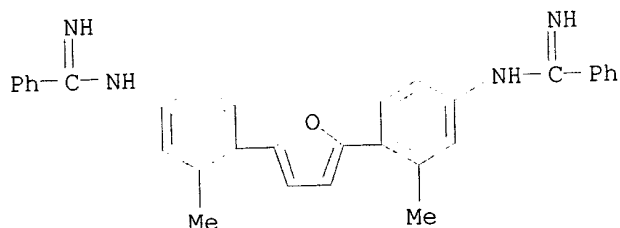
● 2 HCl

RN 347191-04-2 USPATFULL

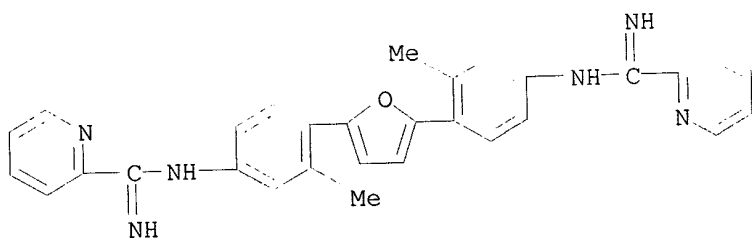
CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-
(9CI) (CA INDEX NAME)



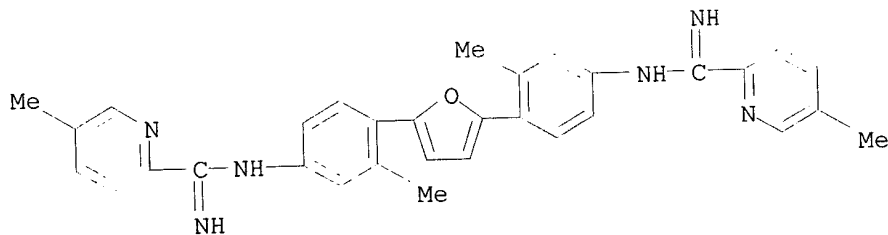
RN 347191-07-5 USPATFULL
 CN Benzenecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



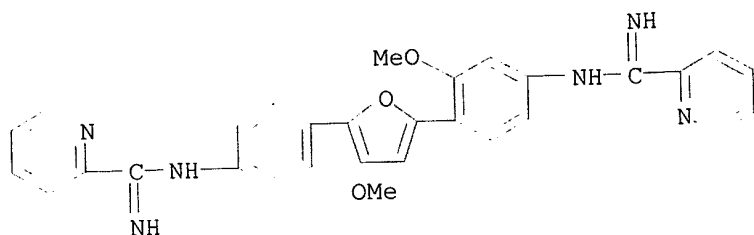
RN 347191-09-7 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



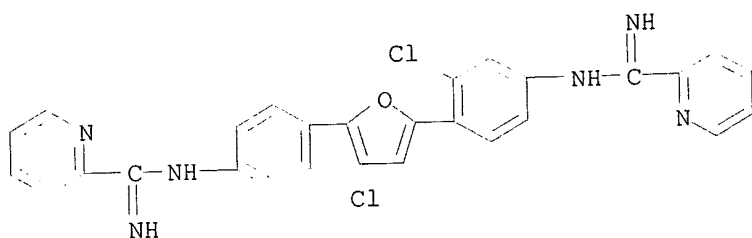
RN 347191-14-4 USPATFULL
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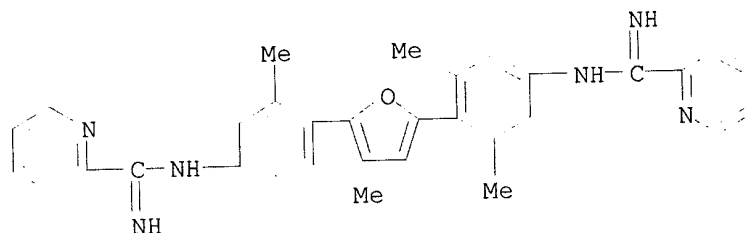
RN 347191-16-6 USPATFULL
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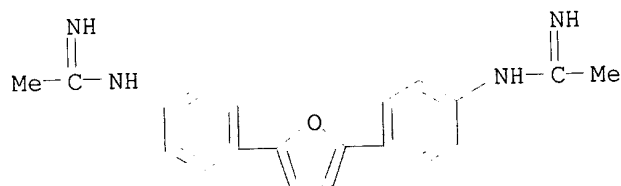
RN 347191-18-8 USPATFULL
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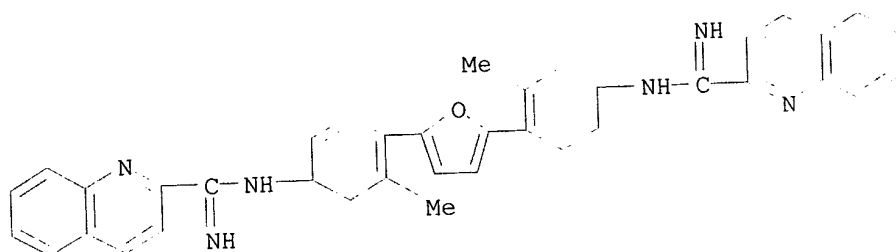
RN 347191-20-2 USPATFULL
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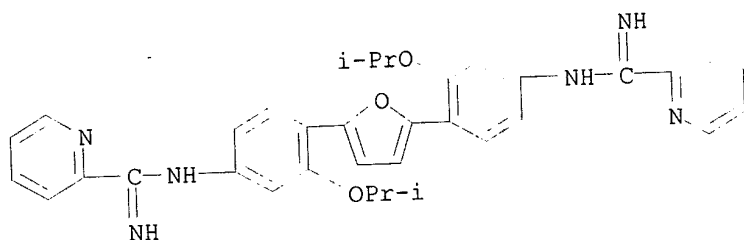
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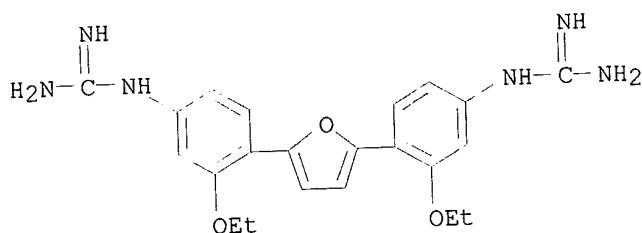
RN 423165-09-7 USPATFULL
 CN 2-Quinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



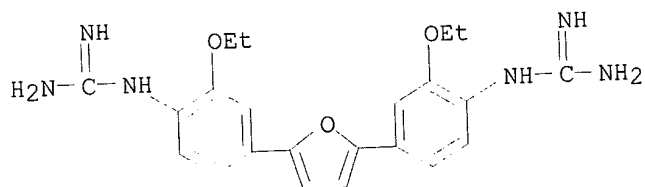
RN 423165-22-4 USPATFULL
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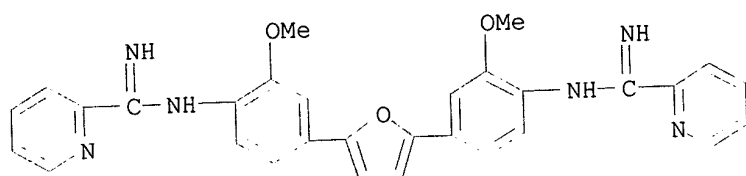
RN 423165-25-7 USPATFULL
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-ethoxy-4,1-phenylene)]bis- (9CI)
 (CA INDEX NAME)



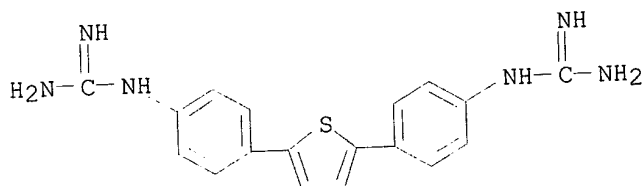
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 (CA INDEX NAME)



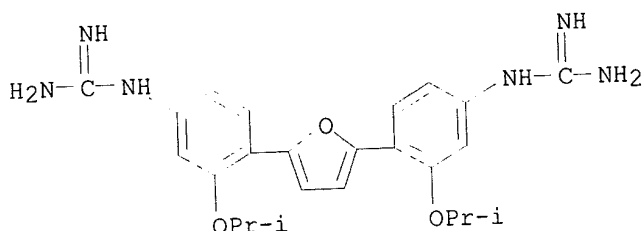
RN 423165-29-1 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 423165-31-5 USPATFULL
CN Guanidine, N,N'''-(2,5-thiophenediyl)di-4,1-phenylene)bis- (9CI) (CA INDEX NAME)

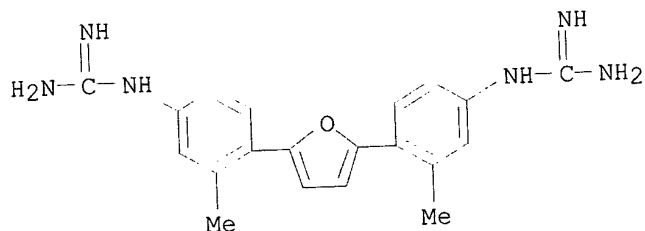


RN 423165-62-2 USPATFULL
CN Guanidine, N,N'''-(2,5-furandiyl)bis[3-(1-methylethoxy)-4,1-phenylene]]bis- (9CI) (CA INDEX NAME)

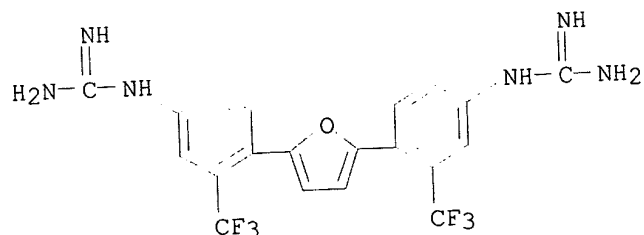


IT 423165-10-0 423165-11-1 423165-12-2
423165-16-6 423165-17-7 423165-18-8
423165-19-9 423165-20-2 423165-21-3
423165-23-5 423165-24-6 423165-26-8
423165-27-9 423165-30-4
(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

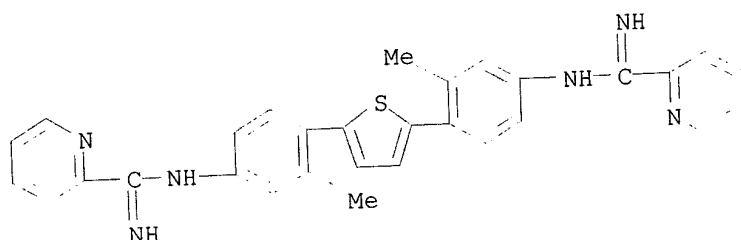
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(CA INDEX NAME)



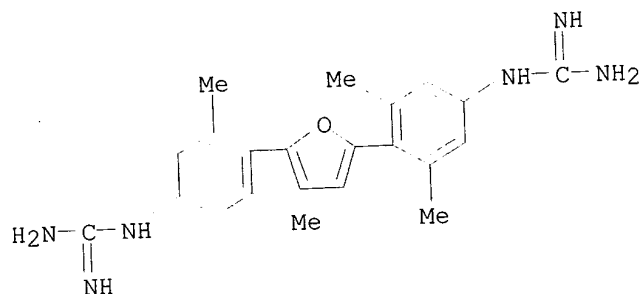
RN 423165-11-1 USPATFULL
CN Guanidine, N,N'''-(2,5-furandiyl)bis[3-(trifluoromethyl)-4,1-phenylene]]bis- (9CI) (CA INDEX NAME)



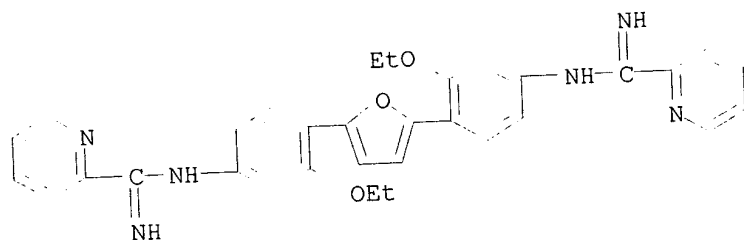
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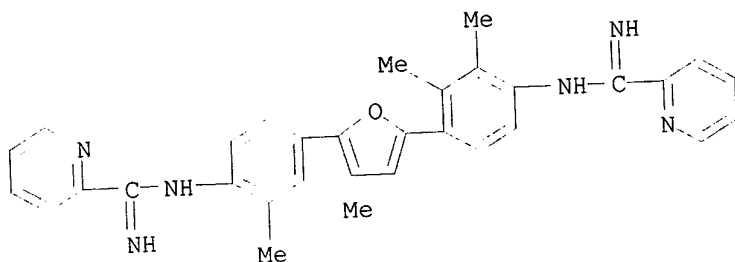
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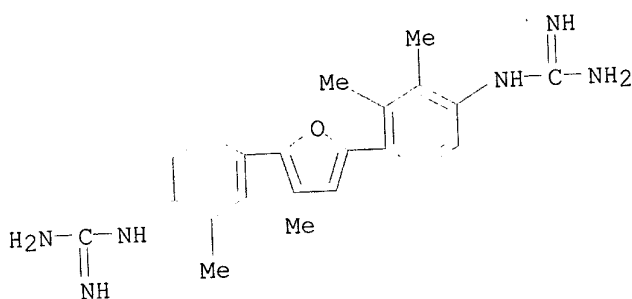
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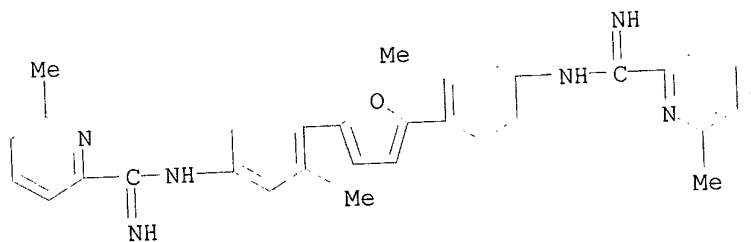
RN 423165-18-8 USPATFULL
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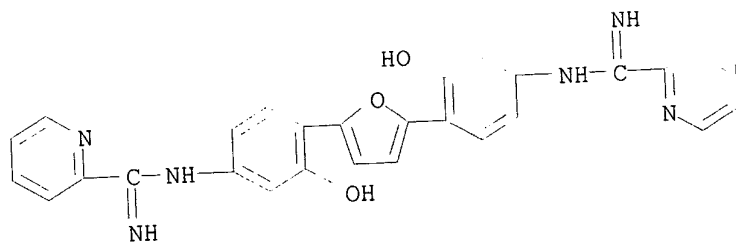
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 (CA INDEX NAME)



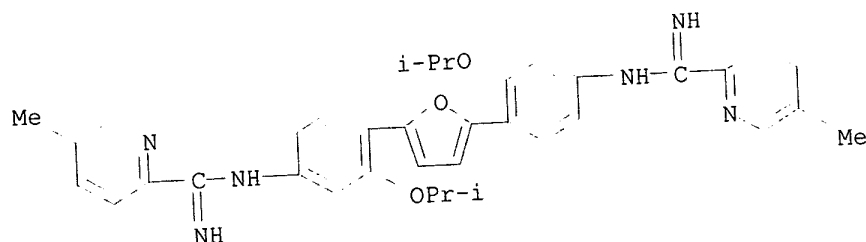
RN 423165-20-2 USPATFULL
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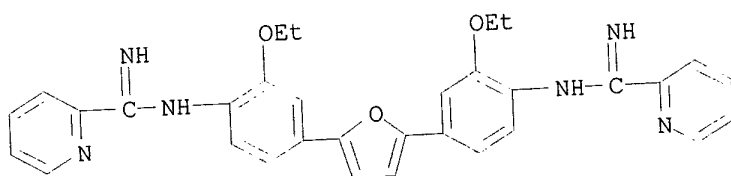
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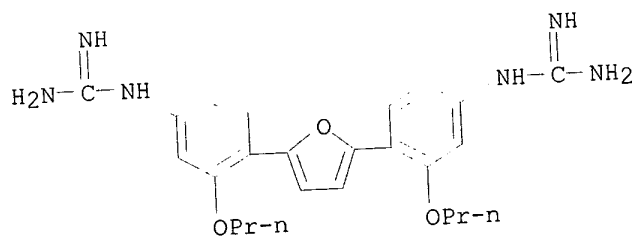
RN 423165-23-5 USPATFULL
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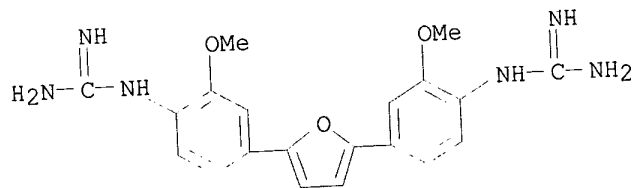
RN 423165-24-6 USPATFULL
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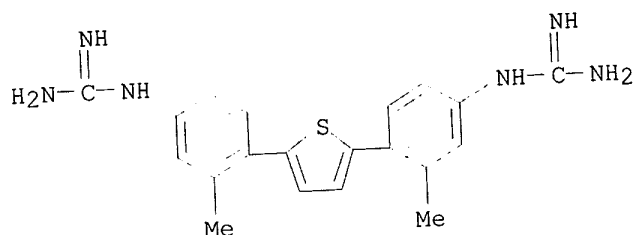
RN 423165-26-8 USPATFULL
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 (CA INDEX NAME)



RN 423165-27-9 USPATFULL
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 (CA INDEX NAME)



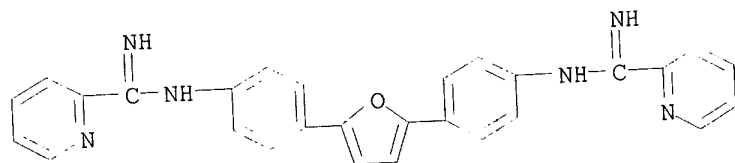
RN 423165-30-4 USPATFULL
 CN Guanidine, N,N'-[2,5-thiophenediylbis(3-methyl-4,1-phenylene)]bis- (9CI)
 (CA INDEX NAME)



IT 347191-00-8P 347191-05-3P 347191-08-6P
 347191-11-1P 347191-15-5P 347191-17-7P
 347191-19-9P 347191-21-3P 423165-54-2P
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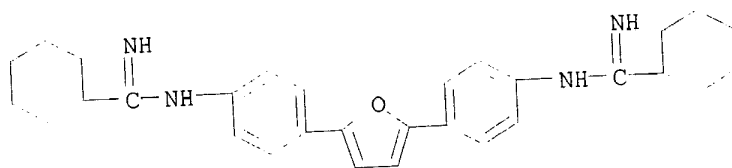
(reversed amidines for treating, preventing, or inhibiting
 leishmaniasis)

RN 347191-00-8 USPATFULL
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 hydrochloride (2:7) (9CI) (CA INDEX NAME)



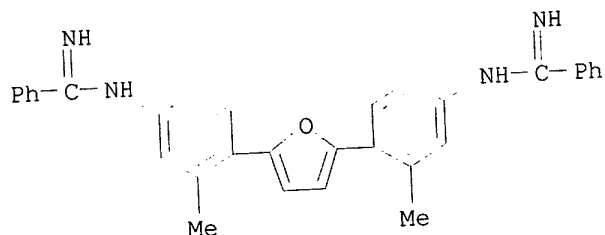
●7/2 HCl

RN 347191-05-3 USPATFULL
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 dihydrochloride (9CI) (CA INDEX NAME)



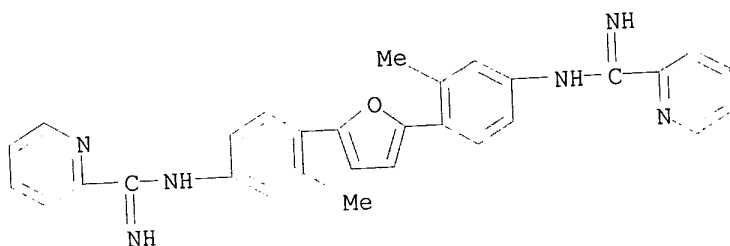
●2 HCl

RN 347191-08-6 USPATFULL
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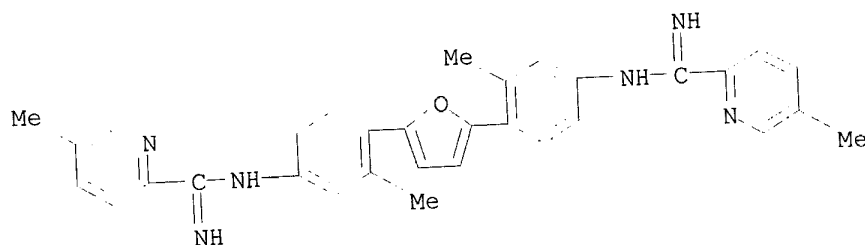
● 2 HCl

RN 347191-11-1 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, hydrochloride (2:7) (9CI) (CA INDEX NAME)



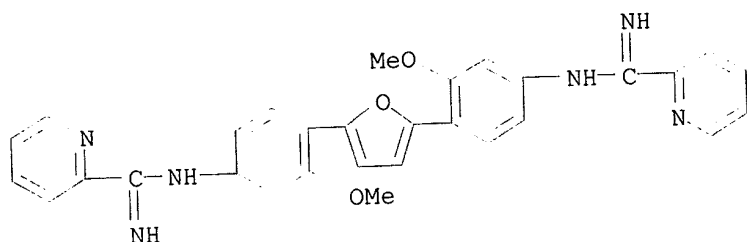
● 7/2 HCl

RN 347191-15-5 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl-, hydrochloride (4:13) (9CI) (CA INDEX NAME)



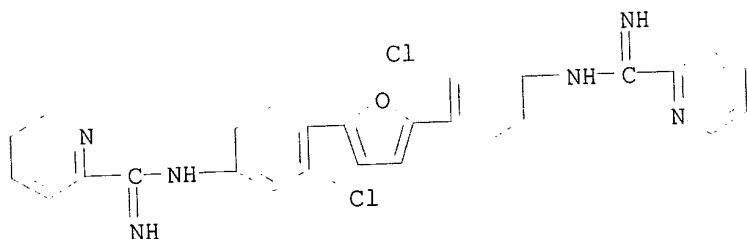
● 13/4 HCl

RN 347191-17-7 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



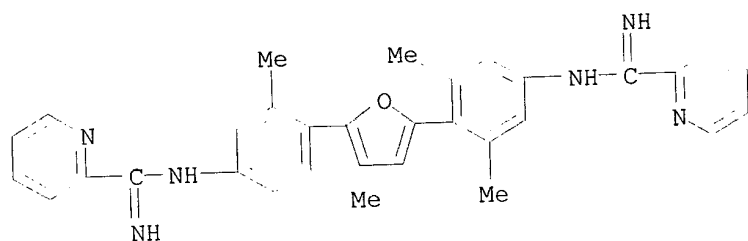
●2 HCl

RN 347191-19-9 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



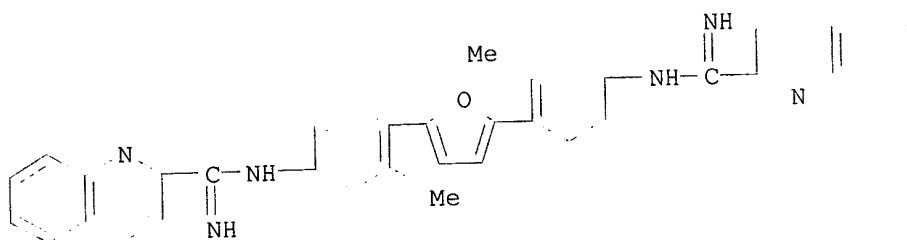
●2 HCl

RN 347191-21-3 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, hydrochloride (4:15) (9CI) (CA INDEX NAME)



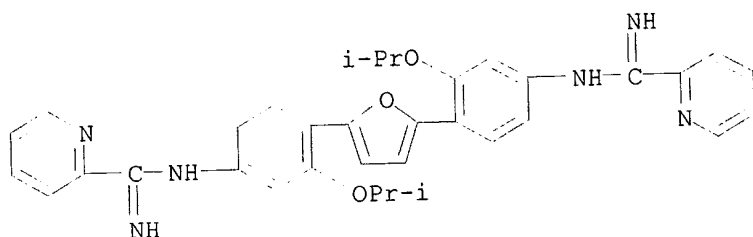
●15/4 HCl

RN 423165-54-2 USPATFULL
 CN 2-Quinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



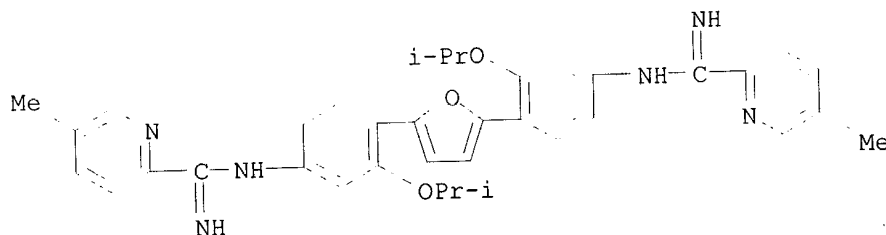
●2 HCl

RN 423165-55-3 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)



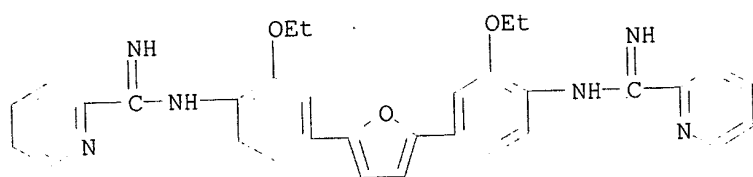
●2 HCl

RN 423165-56-4 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis[5-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



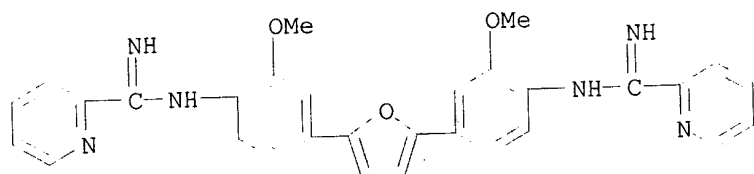
●2 HCl

RN 423165-57-5 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



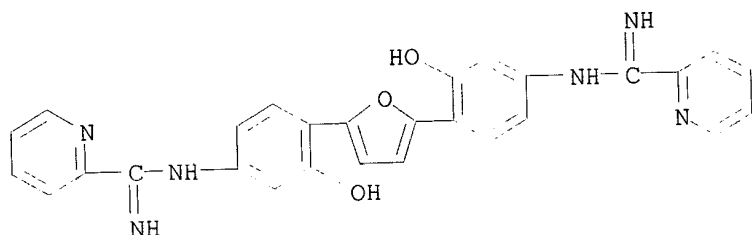
● 2 HCl

RN 423165-58-6 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



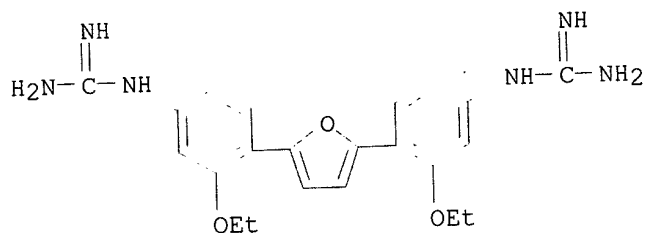
● 2 HCl

RN 423165-59-7 USPATFULL
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-hydroxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



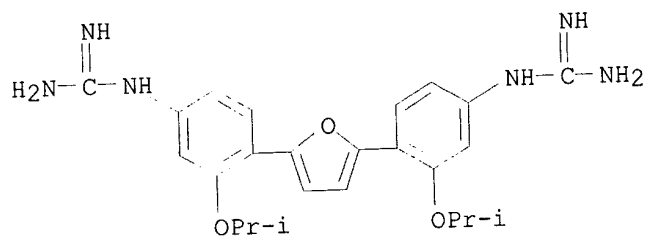
● 2 HCl

RN 423165-61-1 USPATFULL
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



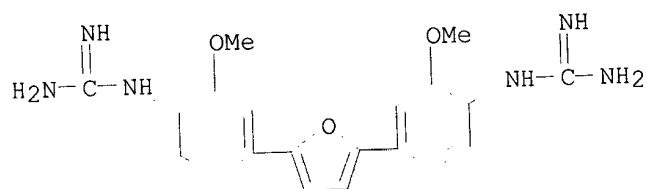
●2 HCl

RN 423165-64-4 USPATFULL
 CN Guanidine, N,N''-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)



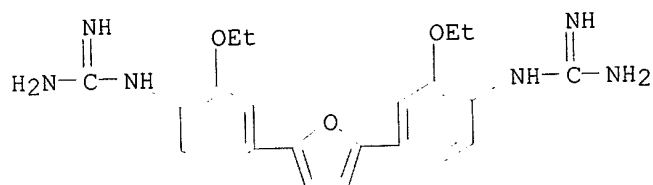
●2 HCl

RN 423165-66-6 USPATFULL
 CN Guanidine, N,N''-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



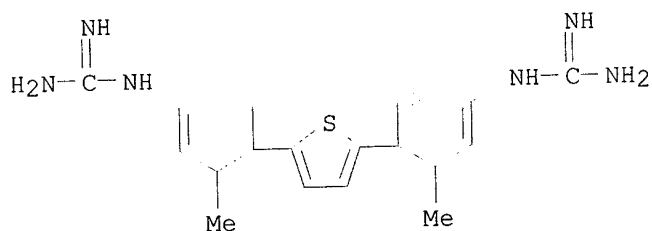
●2 HCl

RN 423165-69-9 USPATFULL
 CN Guanidine, N,N''-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



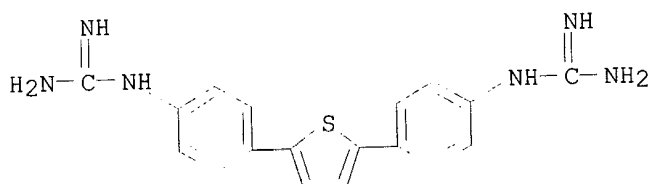
● 2 HCl

RN 423165-71-3 USPATFULL
 CN Guanidine, N,N'''-(2,5-thiophenediylbis(3-methyl-4,1-phenylene))bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 423165-74-6 USPATFULL
 CN Guanidine, N,N'''-(2,5-thiophenediyl-di-4,1-phenylene)bis-, dihydrochloride
 (9CI) (CA INDEX NAME)



● 2 HCl

=> fil hcaplus
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FILE COVERS 1907 - 13 Feb 2003 VOL 138 ISS 7
FILE LAST UPDATED: 12 Feb 2003 (20030212/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot 112

L12 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS
AN 2002:555455 HCAPLUS
DN 137:109199
TI Preparation of bis(amidino- and guanidinophenyl)furans and analogs as microbicides
IN Boykin, David; Tidwell, Richard R.; Wilson, W. David; Perfect, John R.; Stephens, Chad E.
PA University of North Carolina at Chapel Hill, USA; Georgia State University Research Foundation, Inc.
SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM C07D
CC 27-6 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002057224	A2	20020725	WO 2001-US47238	20011106	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	US 2002156098	A1	20021024	US 2001-985590	20011105	
PRAI	US 2000-246244P	P	20001106			
	US 2000-246330P	P	20001107			
	US 2001-288428P	P	20010504			
OS	MARPAT 137:109199					
AB	Z[Z1NHC(:NR5)R6]2 [I; R5 = H, alkyl, aryl; R6 = H, alkyl, aryl, NR7R8; R7,R8 = H, alkyl, aryl; Z = furan-, thiophene-, or pyrrole-2,5-diyl; Z1 = (un)substituted 1,4-phenylene] were prepd. Thus, 2,5-bis(tributylstannyl)furan was condensed with 2-bromo-5-nitrotoluene and the product reduced to give 2,5-bis(4-amino-2-methylphenyl)furan. Similarly prepd. 2,5-bis(4-aminophenyl)furan was amidated by BzCl and the product converted in 2 steps to I (R5 = H, R6 = Ph, Z = furan-2,5-diyl, Z1 = 1,4-phenylene). Data for biol. activity of I were given.					
ST	amidinophenylfuran prepn microbicide; bactericide amidinophenylfuran prepn; fungicide amidinophenylfuran prepn; protozoacide amidinophenylfuran prepn					
IT	Aspergillus Candida albicans					

Cryptococcus neoformans
 Cryptosporidium parvum
 Fusarium solani
 Giardia lamblia
 Mycobacterium tuberculosis
 Plasmodium (malarial genus)
 Pneumocystis carinii
 Toxoplasma gondii
 Trypanosoma

(infection; treatment; prepn. of bis(amidino- and
 guanidinophenyl)furans and analogs as microbicides)

IT Antibacterial agents

Fungicides

Human

Protozoacides

(prepn. of bis(amidino- and guanidinophenyl)furans and analogs as
 microbicides)

IT 347190-93-6P 347190-94-7P 347190-95-8P
 347190-96-9P 347190-97-0P 347190-98-1P
 347190-99-2P 347191-00-8P 347191-02-0P
 347191-03-1P 347191-04-2P 347191-05-3P
 347191-06-4P 347191-07-5P 347191-08-6P
 347191-09-7P 347191-11-1P 347191-14-4P
 347191-15-5P 347191-16-6P 347191-17-7P
 347191-18-8P 347191-19-9P 347191-20-2P
 347191-21-3P 423165-09-7P 423165-12-2P
 423165-54-2P 443797-77-1P 443797-78-2P
 443797-79-3P 443797-80-6P 443797-81-7P
 443797-83-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(prepn. of bis(amidino- and guanidinophenyl)furans and analogs as
 microbicides)

IT 98-88-4, Benzoyl chloride 100-70-9, 2-Cyanopyridine 874-60-2,
 4-Methylbenzoyl chloride 939-26-4, 2-(Bromomethyl)naphthalene
 1620-77-5, 2-Cyano-5-methylpyridine 7149-70-4, 2-Bromo-5-nitrotoluene
 193361-76-1, 2,5-Bis(tributylstannyl)furan

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of bis(amidino- and guanidinophenyl)furans and analogs as
 microbicides)

IT 5346-38-3P, 2-Thiocarbamoylpyridine 53715-17-6P 56297-30-4P,
 2,5-Bis(4-nitrophenyl)furan 251577-90-9P 334017-98-0P 347190-78-7P
 347190-79-8P 347190-80-1P 347190-81-2P 347190-82-3P 347190-83-4P
 347190-84-5P 347190-85-6P 347190-86-7P 347190-87-8P
 347190-88-9P 347190-89-0P 347190-90-3P
 347190-91-4P 347190-92-5P 347191-01-9P 347191-10-0P
 347191-22-4P 347191-23-5P 347191-24-6P 347191-25-7P 443797-82-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(prepn. of bis(amidino- and guanidinophenyl)furans and analogs as
 microbicides)

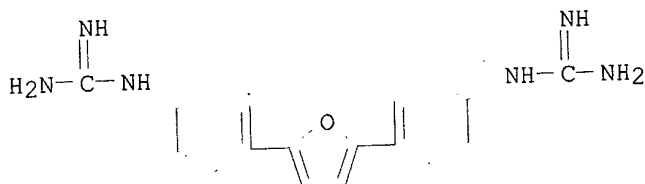
IT 347190-93-6P 347190-94-7P 347190-95-8P
 347190-96-9P 347190-97-0P 347190-98-1P
 347190-99-2P 347191-00-8P 347191-02-0P
 347191-03-1P 347191-04-2P 347191-05-3P
 347191-06-4P 347191-07-5P 347191-08-6P
 347191-09-7P 347191-11-1P 347191-14-4P
 347191-15-5P 347191-16-6P 347191-17-7P
 347191-18-8P 347191-19-9P 347191-20-2P
 347191-21-3P 423165-09-7P 423165-12-2P
 423165-54-2P 443797-77-1P 443797-78-2P
 443797-79-3P 443797-80-6P 443797-81-7P

443797-83-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

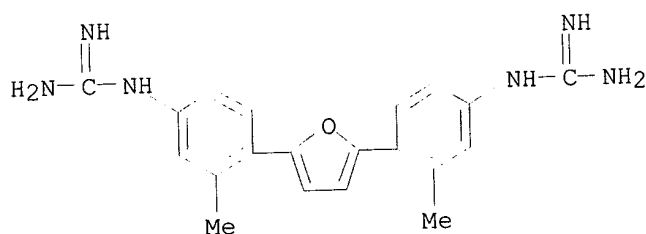
(prepn. of bis(amidino- and guanidinophenyl)furans and analogs as microbicides)

RN 347190-93-6 HCAPLUS
CN Guanidine, N,N'''-(2,5-furandiyl-di-4,1-phenylene)bis-, dihydrochloride (9CI) (CA INDEX NAME)



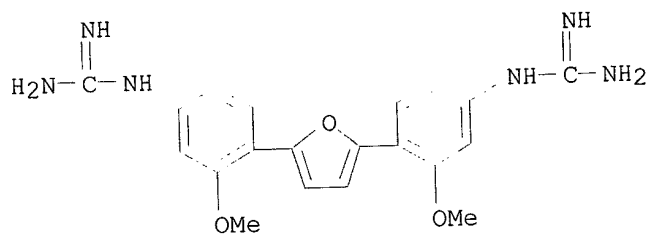
● 2 HCl

RN 347190-94-7 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

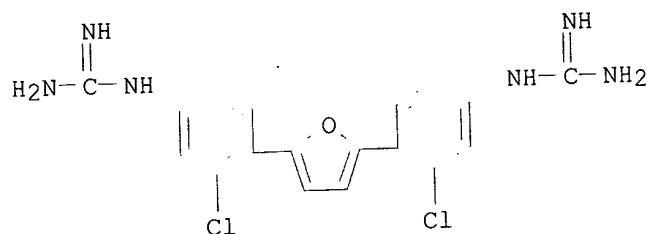
RN 347190-95-8 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

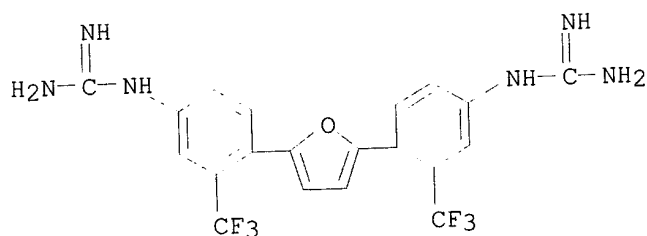
RN 347190-96-9 HCAPLUS

CN Guanidine, N,N'''-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



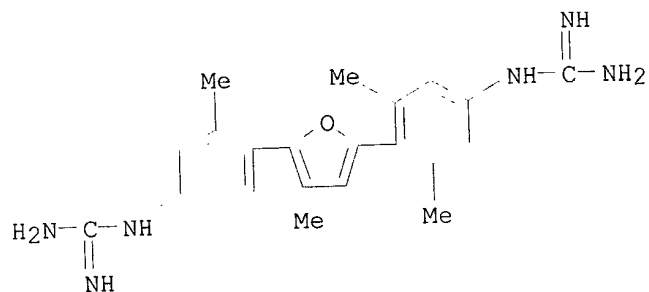
● 2 HCl

RN 347190-97-0 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis[3-(trifluoromethyl)-4,1-phenylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)



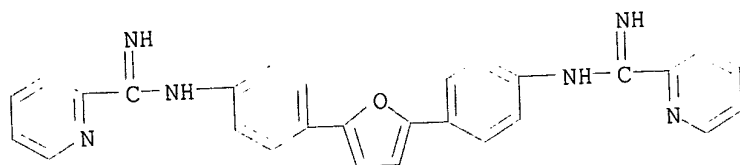
● 2 HCl

RN 347190-98-1 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)

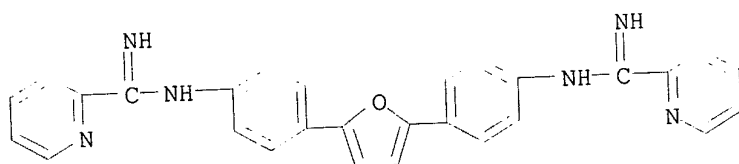


● 2 HCl

RN 347190-99-2 HCAPLUS
CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
(CA INDEX NAME)

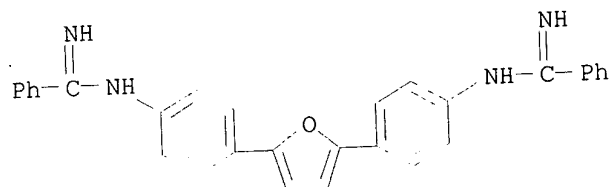


RN 347191-00-8 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 hydrochloride (2:7) (9CI) (CA INDEX NAME)

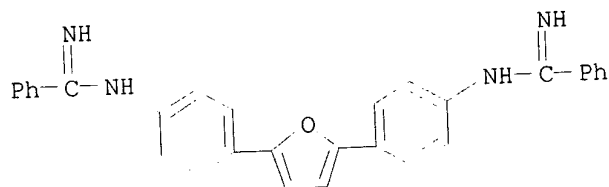


● 7/2 HCl

RN 347191-02-0 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
 (CA INDEX NAME)

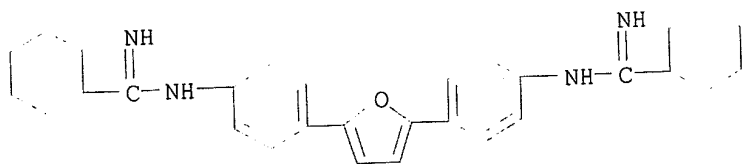


RN 347191-03-1 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)

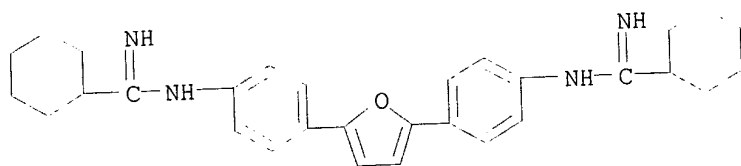


● 2 HCl

RN 347191-04-2 HCAPLUS
 CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-
 (9CI) (CA INDEX NAME)

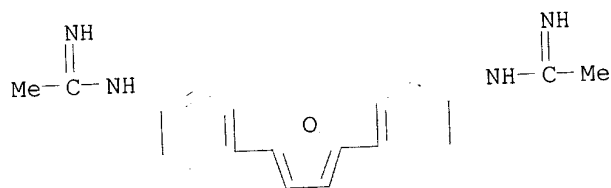


RN 347191-05-3 HCAPLUS
 CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



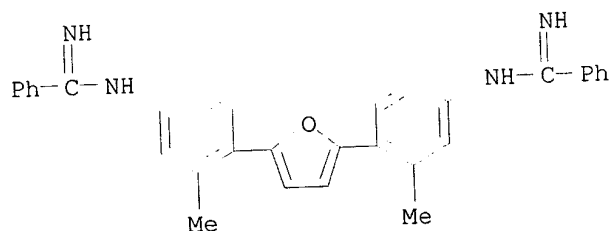
● 2 HCl

RN 347191-06-4 HCAPLUS
 CN Ethanimidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-, dihydrobromide
 (9CI) (CA INDEX NAME)

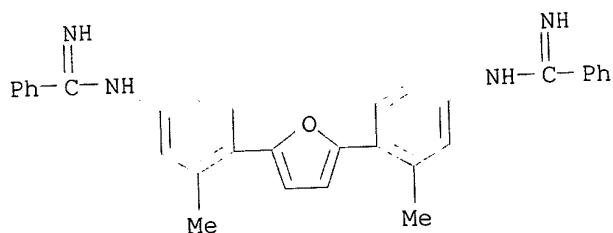


● 2 HBr

RN 347191-07-5 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiylbis(3-methyl-4,1-phenylene))bis- (9CI) (CA INDEX NAME)

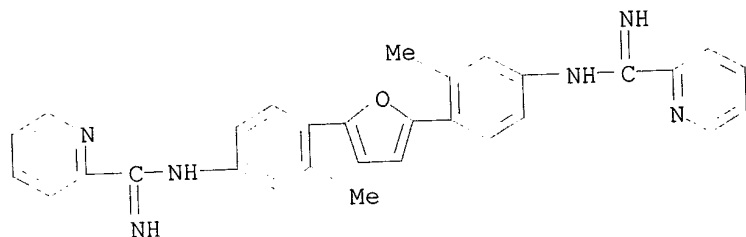


RN 347191-08-6 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiylbis(3-methyl-4,1-phenylene))bis-, dihydrochloride (9CI) (CA INDEX NAME)

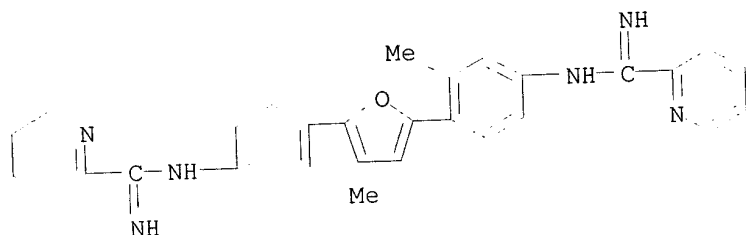


● 2 HCl

RN 347191-09-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)

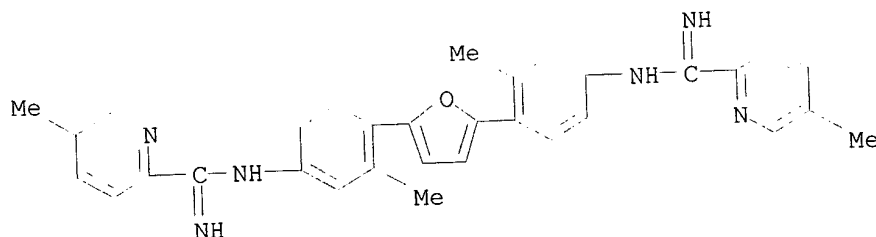


RN 347191-11-1 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, hydrochloride (2:7) (9CI) (CA INDEX NAME)

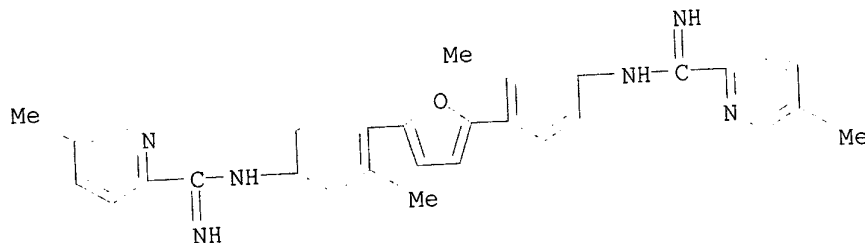


● 7/2 HCl

RN 347191-14-4 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl- (9CI) (CA INDEX NAME)]

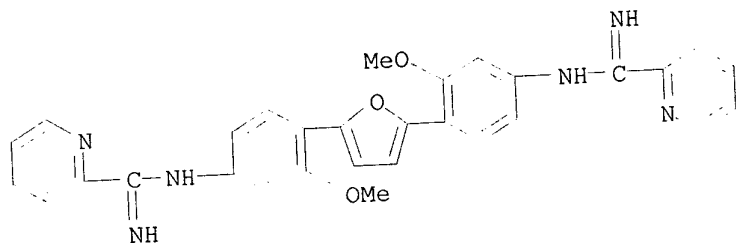


RN 347191-15-5 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl-, hydrochloride (4:13) (9CI) (CA INDEX NAME)

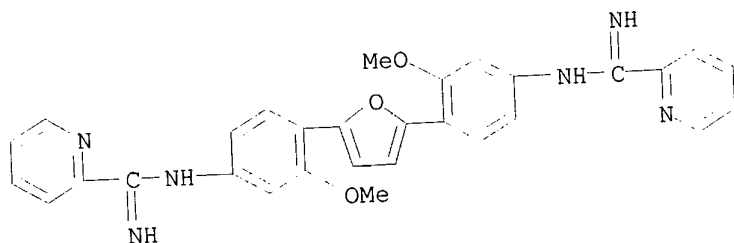


●13/4 HCl

RN 347191-16-6 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)

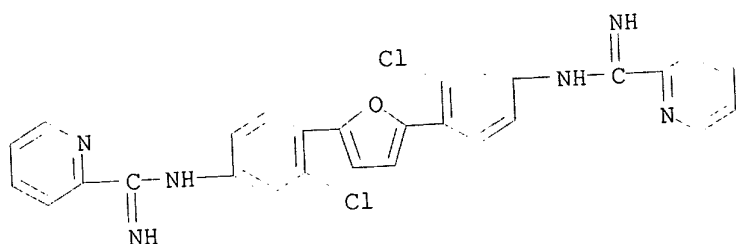


RN 347191-17-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)

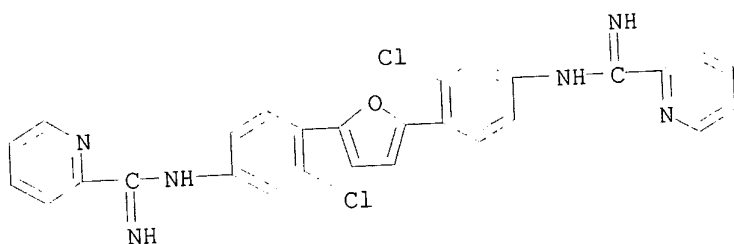


●2 HCl

RN 347191-18-8 HCAPLUS
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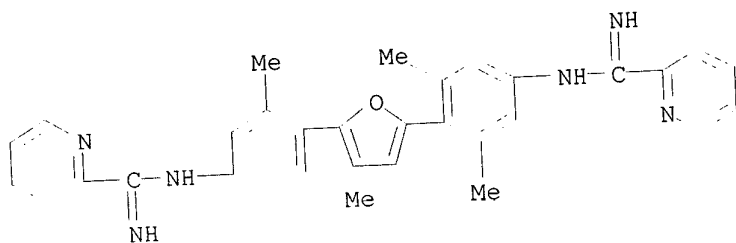


RN 347191-19-9 HCAPLUS
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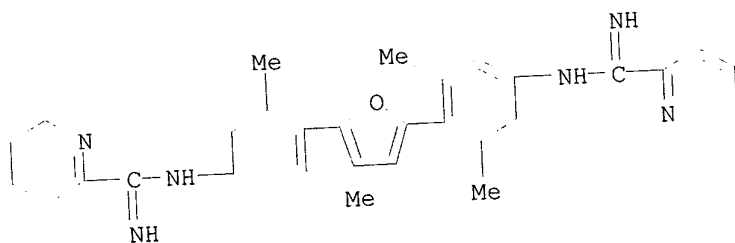


●2 HCl

RN 347191-20-2 HCAPLUS
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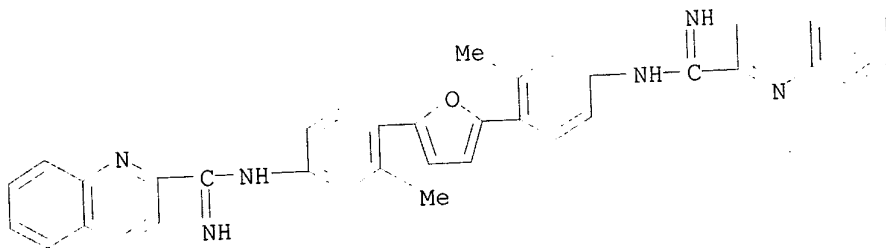


RN 347191-21-3 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, hydrochloride (4:15) (9CI) (CA INDEX NAME)

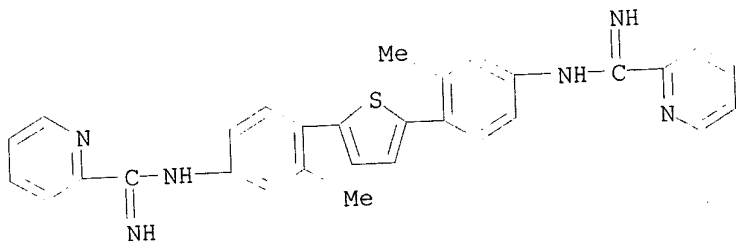


●15/4 HCl

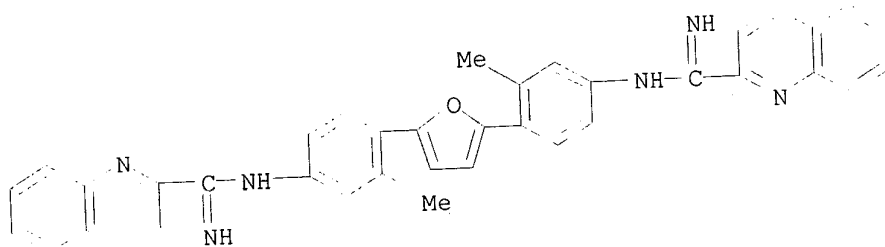
RN 423165-09-7 HCAPLUS
 CN 2-Quinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 423165-12-2 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-thiophenediylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)

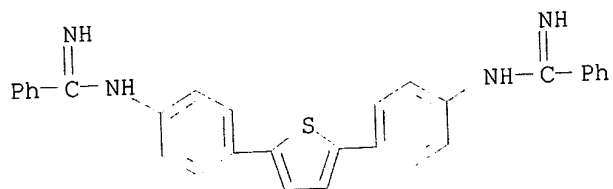


RN 423165-54-2 HCAPLUS
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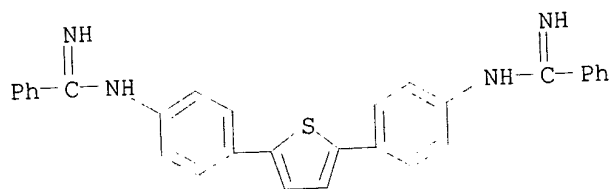


● 2 HCl

RN 443797-77-1 HCAPLUS
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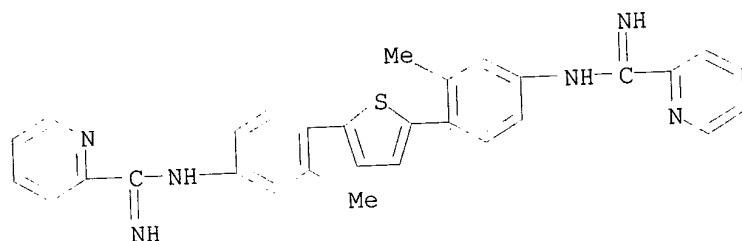


RN 443797-78-2 HCAPLUS
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 dihydrochloride (9CI) (CA INDEX NAME)



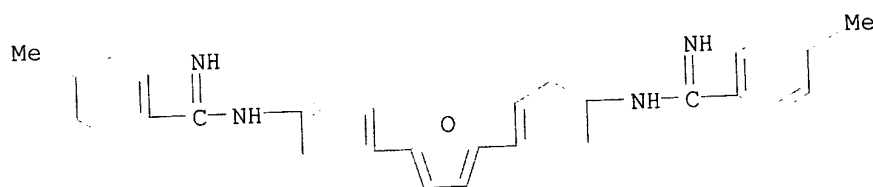
● 2 HCl

RN 443797-79-3 HCAPLUS
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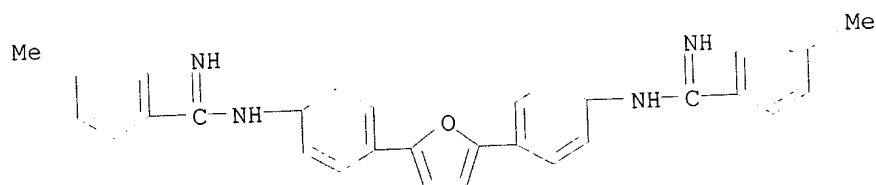
● 5/2 HCl

RN 443797-80-6 HCAPLUS
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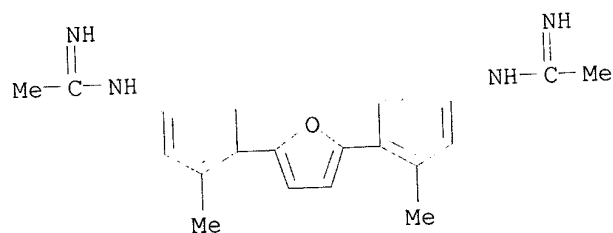


●2 HCl

RN 443797-81-7 HCAPLUS
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 (9CI) (CA INDEX NAME)

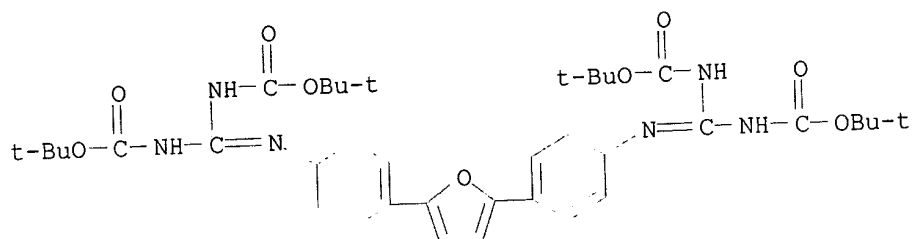


RN 443797-83-9 HCAPLUS
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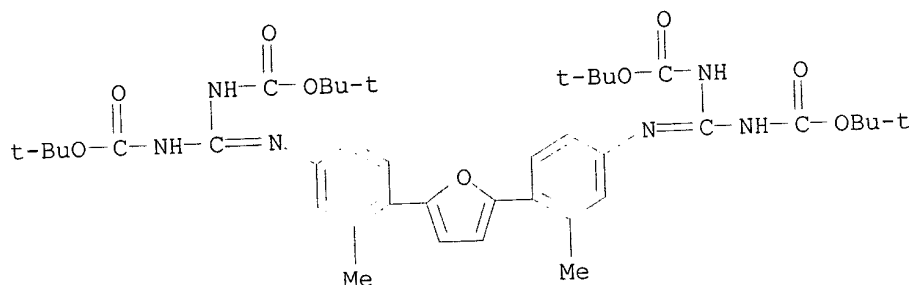


●2 HBr

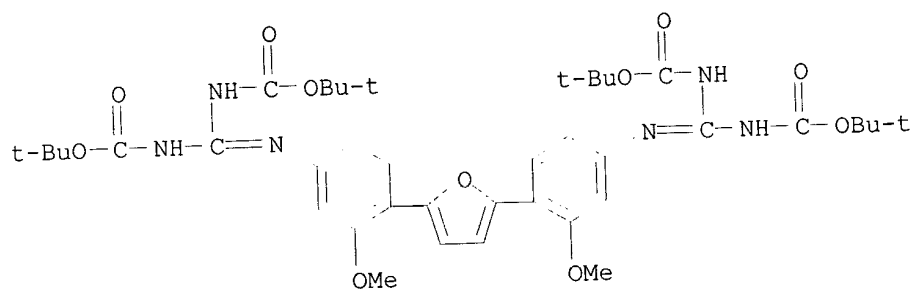
IT 347190-87-8P 347190-88-9P 347190-89-0P
 347190-90-3P 347190-91-4P 347190-92-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of bis(amidino- and guanidinophenyl)furans and analogs as
 microbicides)
 RN 347190-87-8 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis(4,1-phenylenenitrilomethanetetrayl)]tetra-
 kis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



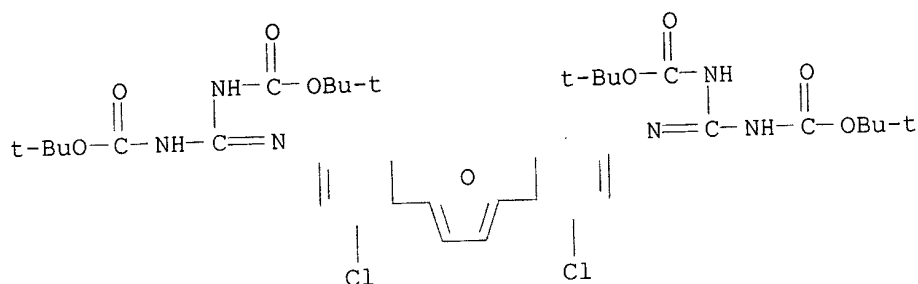
RN 347190-88-9 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-methyl-4,1-phenylene)nitrlomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



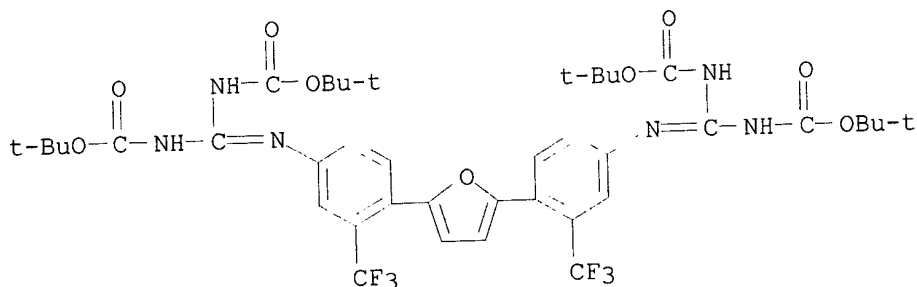
RN 347190-89-0 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-methoxy-4,1-phenylene)nitrlomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



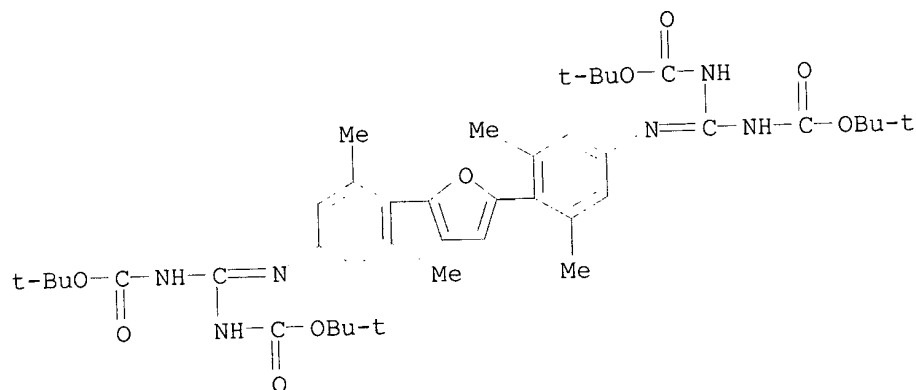
RN 347190-90-3 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-chloro-4,1-phenylene)nitrlomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 347190-91-4 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[[3-(trifluoromethyl)-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 347190-92-5 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[[3,5-dimethyl-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:539483 HCAPLUS
 DN 137:103864
 TI Compounds useful for the treatment of bovine viral diarrhea virus and hepatitis C virus infections
 IN **Boykin, David; Tidwell, Richard R.**; Stringfellow, David; Brock, Kenny; **Stephens, Chad E.**; Kumar, Arvind; **Wilson, W. David**; Givens, Daniel; Dykstra, Christine
 PA University of North Carolina At Chapel Hill, USA; Georgia State University

Research Foundation; Auburn University
 SO PCT Int. Appl., 68 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K
 CC 1-5 (Pharmacology)
 Section cross-reference(s): 28

FAN.CNT 1
 PATENT NO. KIND DATE APPLICATION NO. DATE

 PI WO 2002055025 A2 20020718 WO 2002-US787 20020111
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
 TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 PRAI US 2001-261654P P 20010113
 OS MARPAT 137:103864
 AB The invention relates to novel compds. and methods that are useful in
 treating members of the Flaviviridae family of viruses. Compds. disclosed
 in the invention are shown to be effective against bovine viral diarrhea
 virus and hepatitis C virus infection.
 ST antiviral cattle diarrhea virus hepatitis C infection
 IT Antiviral agents
 Bovine diarrhea virus
 Cattle
 Embryo, animal
 Flaviviridae
 Hepatitis C virus
 Human
 (compds. for treatment of bovine viral diarrhea virus infection and
 hepatitis C virus infection)
 IT Drug delivery systems
 (injections, i.v.; compds. for treatment of bovine viral diarrhea virus
 infection and hepatitis C virus infection)
 IT Drug delivery systems
 (oral; compds. for treatment of bovine viral diarrhea virus infection
 and hepatitis C virus infection)
 IT 423165-10-0 423165-11-1 423165-30-4
 423165-31-5 433735-86-5 433735-89-8 433735-90-1
 442842-40-2 442842-41-3 442842-42-4 442842-43-5 442842-44-6
 442842-45-7 442842-46-8 442842-47-9 442842-48-0
 442842-49-1 442842-50-4
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (compds. for treatment of bovine viral diarrhea virus infection and
 hepatitis C virus infection)
 IT 95-54-5, 1,2-Phenylenediamine, reactions 7147-77-5, 5-(4-
 Nitrophenyl)furfural 7149-70-4, 2-Bromo-5-nitrotoluene 52130-32-2,
 5-(4-Cyanophenyl)-2-furancarboxaldehyde 68662-17-9 68827-43-0,
 4-Amidino-1,2-phenylenediamine 148344-30-3 193361-76-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (compds. for treatment of bovine viral diarrhea virus infection and
 hepatitis C virus infection)
 IT 53715-17-6P 56297-30-4P 251577-90-9P 332360-11-9P 347190-78-7P
 347190-79-8P 347190-80-1P 347190-81-2P 347190-82-3P 347190-83-4P
 347190-84-5P 347190-85-6P 347190-86-7P 347190-87-8P

347190-88-9P 347190-89-0P 347190-90-3P

347190-91-4P 347190-92-5P 442842-52-6P 442842-54-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(compds. for treatment of bovine viral diarrhea virus infection and hepatitis C virus infection)

IT 347190-93-6P 347190-94-7P 347190-95-8P

347190-96-9P 347190-97-0P 347190-98-1P

442842-51-5P 442842-53-7P 442842-55-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(compds. for treatment of bovine viral diarrhea virus infection and hepatitis C virus infection)

IT 9003-99-0, Peroxidase

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(in immunoassay; compds. for treatment of bovine viral diarrhea virus infection and hepatitis C virus infection)

IT 443408-63-7 443408-64-8 443408-65-9

RL: PRP (Properties)

(unclaimed nucleotide sequence; compds. useful for the treatment of bovine viral diarrhea virus and hepatitis C virus infections)

IT 423165-10-0 423165-11-1 423165-30-4

423165-31-5 442842-45-7 442842-49-1

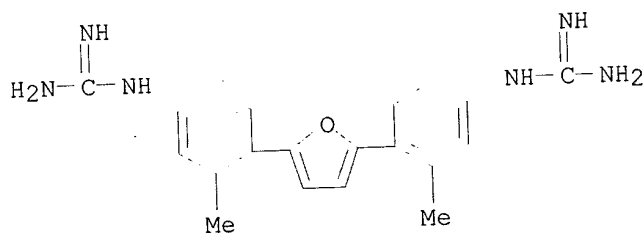
442842-50-4

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(compds. for treatment of bovine viral diarrhea virus infection and hepatitis C virus infection)

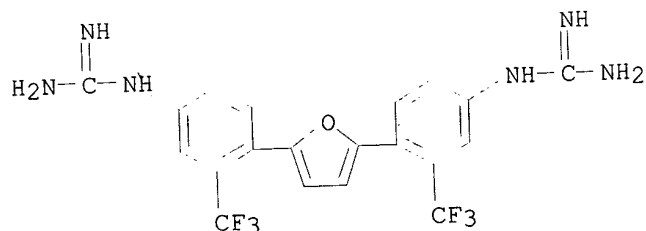
RN 423165-10-0 HCAPLUS

CN Guanidine, N,N''''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



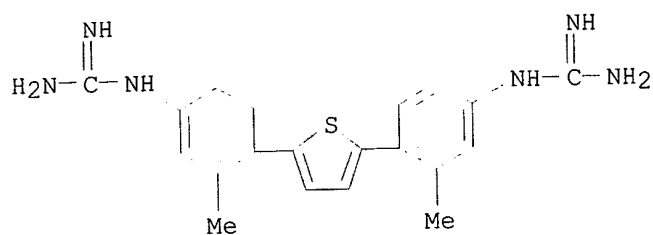
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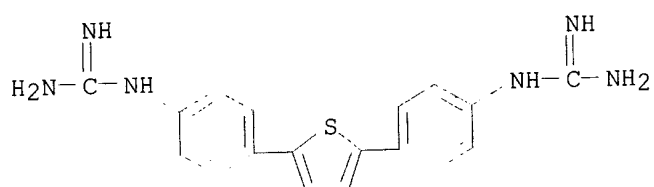


RN 423165-30-4 HCAPLUS

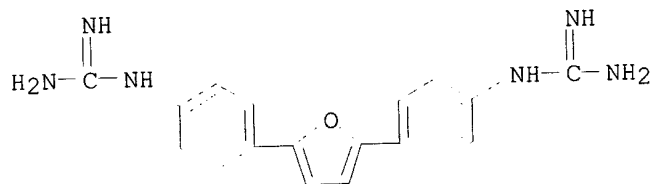
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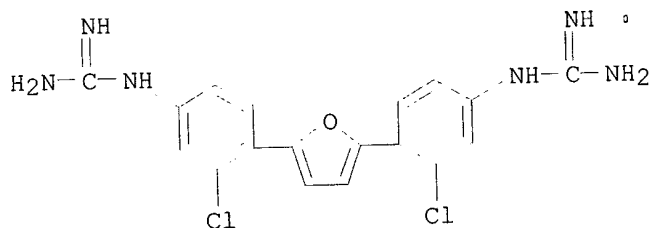
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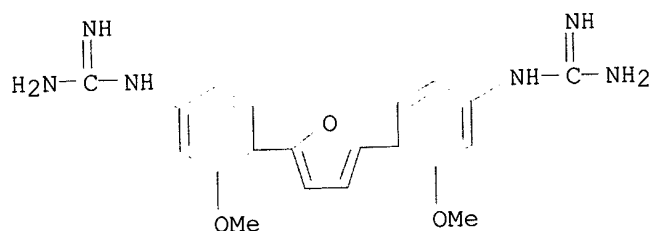
RN 442842-45-7 HCAPLUS
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RN 442842-49-1 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 442842-50-4 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)

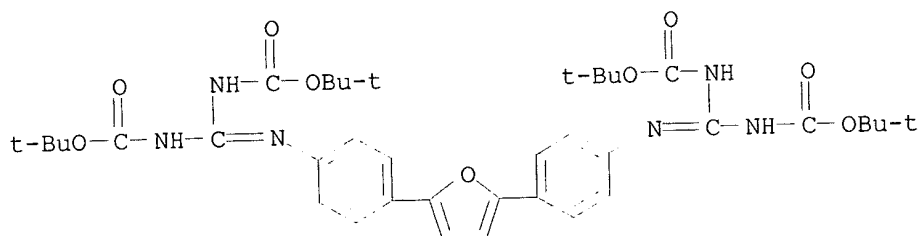


IT 347190-87-8P 347190-88-9P 347190-89-0P
347190-90-3P 347190-91-4P 347190-92-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(comps. for treatment of bovine viral diarrhea virus infection and
hepatitis C virus infection)

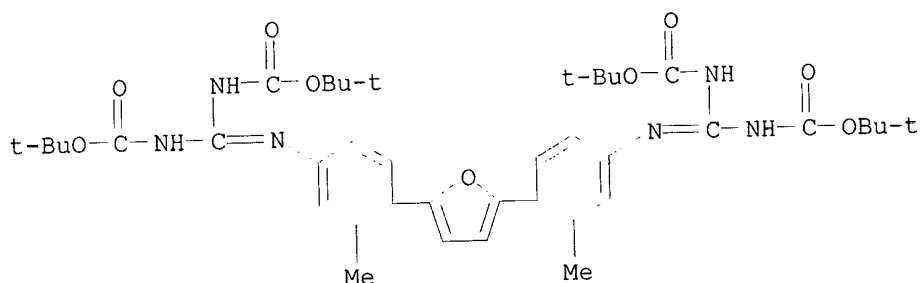
RN 347190-87-8 HCAPLUS

CN Carbamic acid, [2,5-furandiylbis(4,1-phenylenenitrilomethanetetrayl)]tetra-
kis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



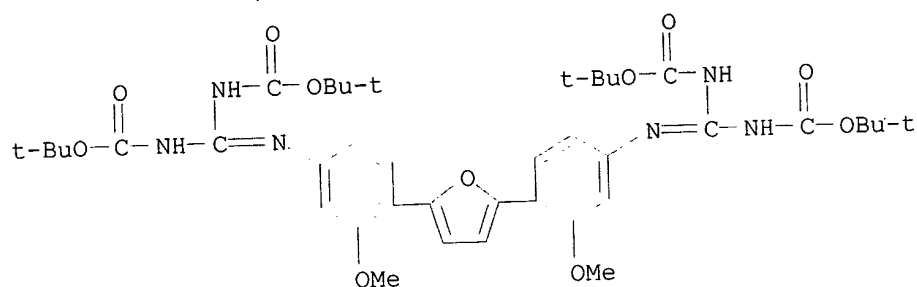
RN 347190-88-9 HCAPLUS

CN Carbamic acid, [2,5-furandiylbis[(3-methyl-4,1-
phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)

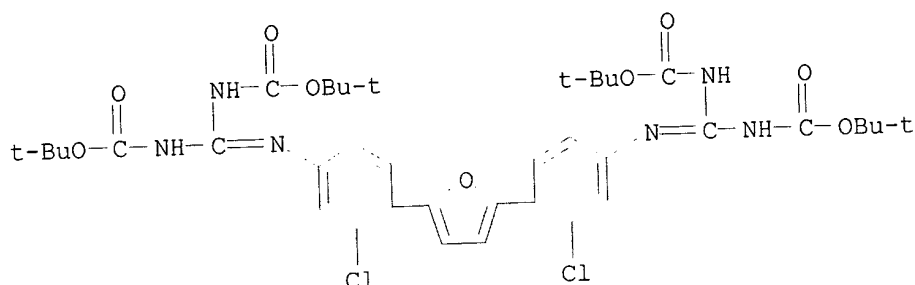


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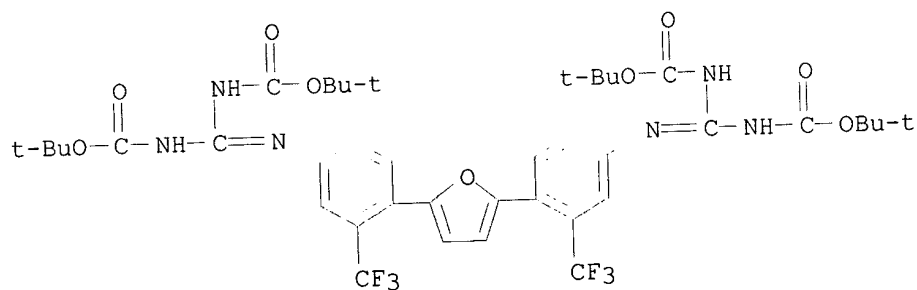
CN Carbamic acid, [2,5-furandiylbis[(3-methoxy-4,1-
phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)



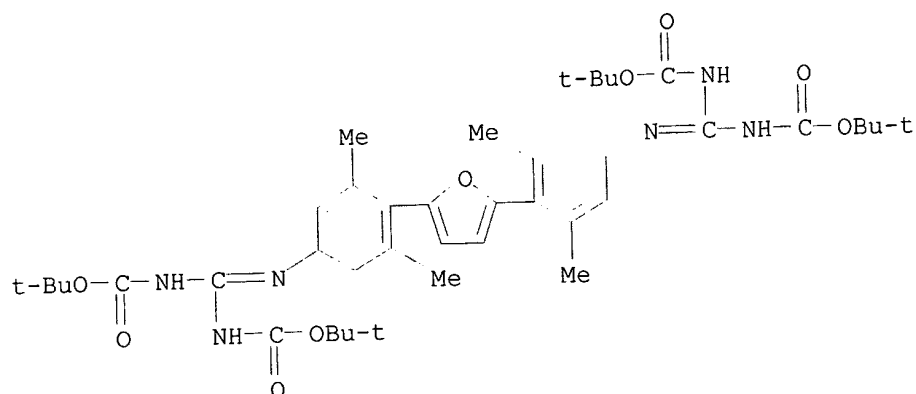
RN 347190-90-3 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-chloro-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



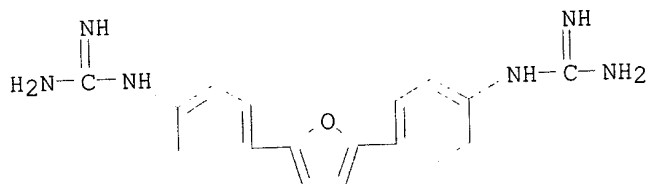
RN 347190-91-4 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[[3-(trifluoromethyl)-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 347190-92-5 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3,5-dimethyl-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

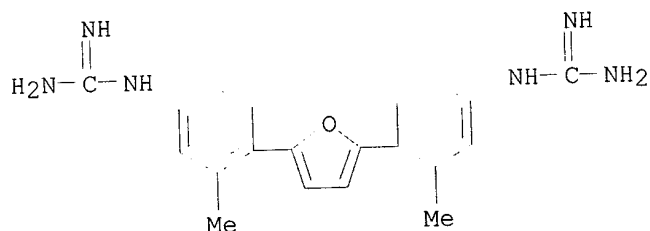


IT 347190-93-6P 347190-94-7P 347190-95-8P
 347190-96-9P 347190-97-0P 347190-98-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (compds. for treatment of bovine viral diarrhea virus infection and
 hepatitis C virus infection)
 RN 347190-93-6 HCAPLUS
 CN Guanidine, N,N'''-(2,5-furandiyl-di-4,1-phenylene)bis-, dihydrochloride
 (9CI) (CA INDEX NAME)



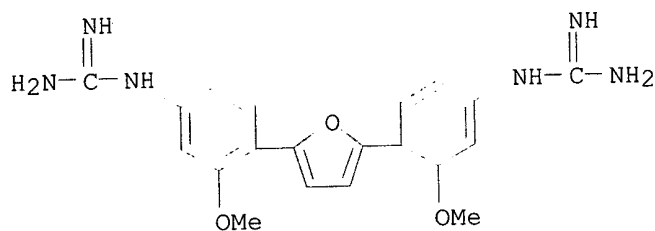
● 2 HCl

RN 347190-94-7 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



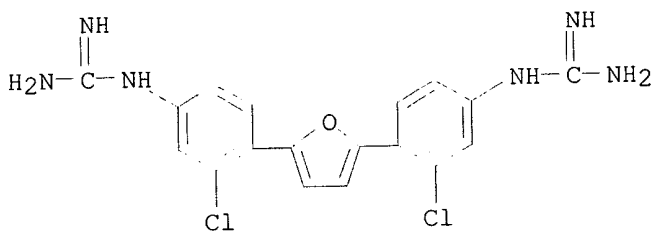
● 2 HCl

RN 347190-95-8 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



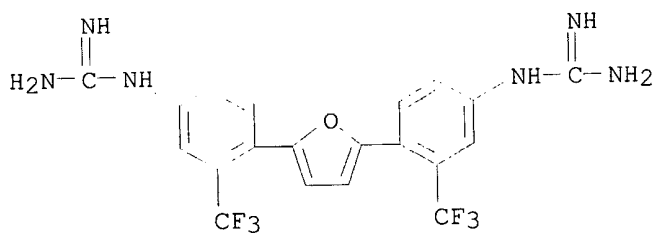
●2 HCl

RN 347190-96-9 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



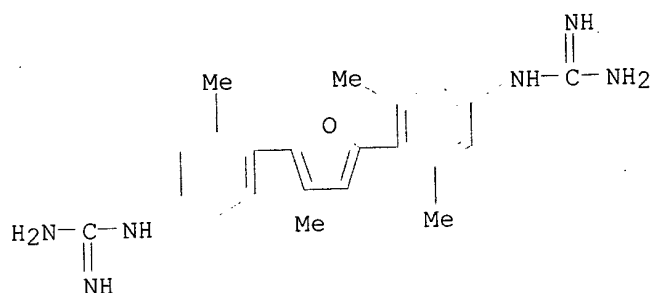
●2 HCl

RN 347190-97-0 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis[3-(trifluoromethyl)-4,1-phenylene]]bis-,
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●2 HCl

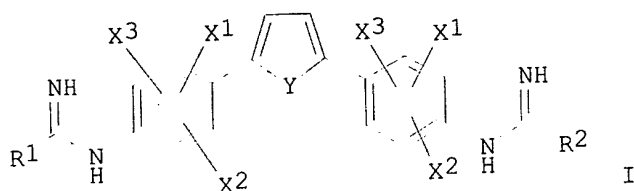
RN 347190-98-1 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L12 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS
 AN 2002:353451 HCAPLUS
 DN 136:363813
 TI Reversed amidines and methods of using them for treating, preventing, or
 inhibiting leishmaniasis
 IN Werbovetz, Karl A.; Brendle, James J.; **Boykin, David W.;**
Stephens, Chad E.
 PA U.S. Army Medical Research and Materiel Command, USA
 SO PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07D405-00
 CC 1-5 (Pharmacology)
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036588	A2	20020510	WO 2001-US42905	20011105
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002032400	A5	20020515	AU 2002-32400	20011105
	US 2002156098	A1	20021024	US 2001-985590	20011105
PRAI	US 2000-246277P	P	20001106		
	US 2000-246330P	P	20001107		
	US 2001-288428P	P	20010504		
	US 2000-246244P	P	20001106		
	WO 2001-US42905	W	20011105		
OS	MARPAT 136:363813				
GI					



- AB Methods are disclosed for treating, preventing or inhibiting leishmaniasis in a subject which comprise administering to the subject a therapeutically effective amt. of at least one compd. I (Y = heteroatom; R1, R2 = H, alkyl, cycloalkyl, heterocycloalkyl, aryl, amino, heteroaryl; X1, X2, X3 = H, alkyl, alkoxy, halo, amino, alkylamino, dialkylamino, acylamino, alkylthio, sulfonyl, cyano, carboxy, alkoxycarbonyl, carbamoyl).
- ST heterocyclic deriv reversed amidine leishmaniasis treatment; furan deriv reversed amidine leishmaniasis treatment; thiophene deriv reversed amidine leishmaniasis treatment
- IT Leishmania
(leishmaniasis from, cutaneous or mucocutaneous or visceral; reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT Protozoacides
(leishmanicides; reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT Drug delivery systems
Leishmania
Leishmania donovani
Leishmania mexicana
Parasiticides
(reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT Amidines
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT 7035-69-0P 53715-17-6P 56297-30-4P 57279-70-6P 101793-47-9P
103966-66-1P 251577-90-9P 347190-78-7P 347190-79-8P 347190-80-1P
347190-81-2P 347190-82-3P 347190-83-4P 347190-84-5P 347190-86-7P
423165-32-6P 423165-34-8P 423165-35-9P 423165-36-0P 423165-37-1P
423165-39-3P 423165-42-8P 423165-48-4P 423165-49-5P 423165-50-8P
423165-51-9P 423165-52-0P 423165-60-0P 423165-63-3P
423165-65-5P 423165-67-7P 423165-70-2P
423165-73-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction; reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT 75-30-9, 2-Iodopropane 98-88-4, Benzoyl chloride 367-67-9,
2-Bromo-5-nitrobenzotrifluoride 586-78-7, 4-Bromonitrobenzene
610-38-8, 4-Bromo-1,2-dinitrobenzene 6345-68-2 7149-70-4,
2-Bromo-5-nitrotoluene 29682-39-1, 1-Bromo-2-chloro-4-nitrobenzene
52427-05-1, 2-Bromo-5-nitrophenol 53906-84-6 70010-49-0 77337-82-7,
2-Bromo-5-nitroanisole 145483-63-2 180002-24-8 193361-76-1
215175-55-6 347191-10-0 347191-22-4 347191-23-5 347191-24-6
423165-33-7 423165-53-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; reversed amidines for treating, preventing, or inhibiting leishmaniasis)
- IT 347191-02-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

IT 347190-99-2P 347191-03-1P 347191-04-2P
347191-07-5P 347191-09-7P 347191-14-4P
347191-16-6P 347191-18-8P 347191-20-2P
423165-06-4P 423165-09-7P 423165-22-4P
423165-25-7P 423165-28-0P 423165-29-1P
423165-31-5P 423165-62-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

IT 423165-10-0 423165-11-1 423165-12-2
423165-14-4 423165-15-5 423165-16-6 423165-17-7
423165-18-8 423165-19-9 423165-20-2
423165-21-3 423165-23-5 423165-24-6
423165-26-8 423165-27-9 423165-30-4
423165-75-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

IT 347190-85-6P 347191-00-8P 347191-05-3P
347191-08-6P 347191-11-1P 347191-15-5P
347191-17-7P 347191-19-9P 347191-21-3P
423165-54-2P 423165-55-3P 423165-56-4P
423165-57-5P 423165-58-6P 423165-59-7P
423165-61-1P 423165-64-4P 423165-66-6P
423165-69-9P 423165-71-3P 423165-74-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis)

IT 100-33-4, Pentamidine 133-51-7, Meglumine antimoniate 1397-89-3,
Amphotericin B 6284-40-8D, Meglumine, antimonite salts 7542-37-2,
Paromomycin 16037-91-5, Sodium stibogluconate 58066-85-6, Miltefosine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(reversed amidines for treating, preventing, or inhibiting
leishmaniasis, and use with other agents)

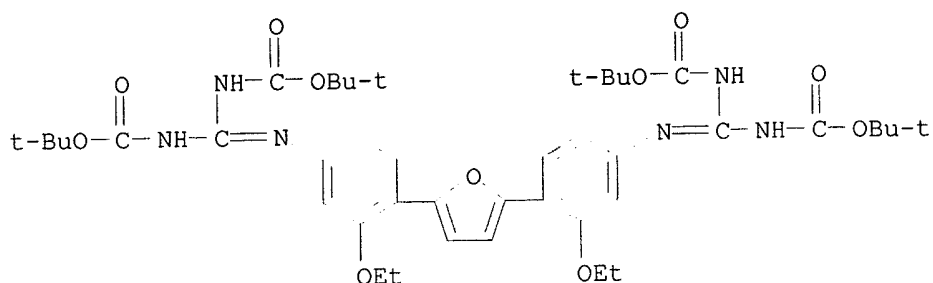
IT 423165-60-0P 423165-63-3P 423165-65-5P
423165-67-7P 423165-70-2P 423165-73-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. and reaction; reversed amidines for treating, preventing, or
inhibiting leishmaniasis)

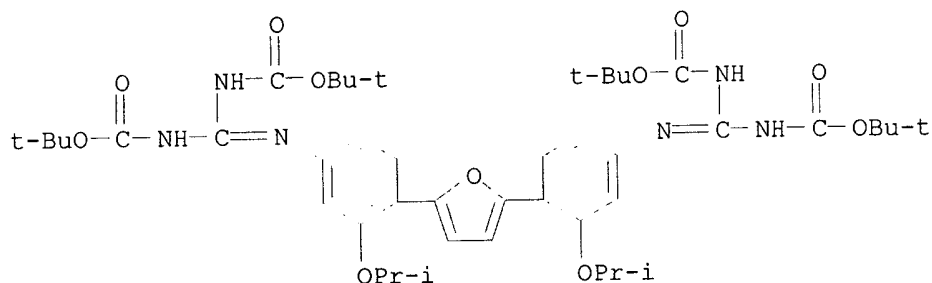
RN 423165-60-0 HCAPLUS

CN Carbamic acid, [2,5-furandiylbis[(3-ethoxy-4,1-
phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl)
ester (9CI) (CA INDEX NAME)



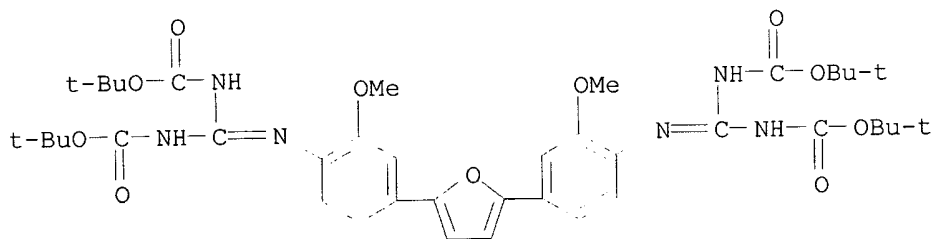
RN 423165-63-3 HCAPLUS

CN Carbamic acid, [2,5-furandiylbis[[3-(1-methylethoxy)-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



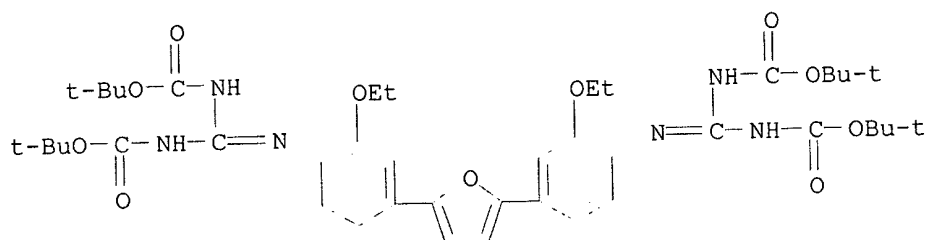
RN 423165-65-5 HCAPLUS

CN Carbamic acid, [2,5-furandiylbis[(2-methoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

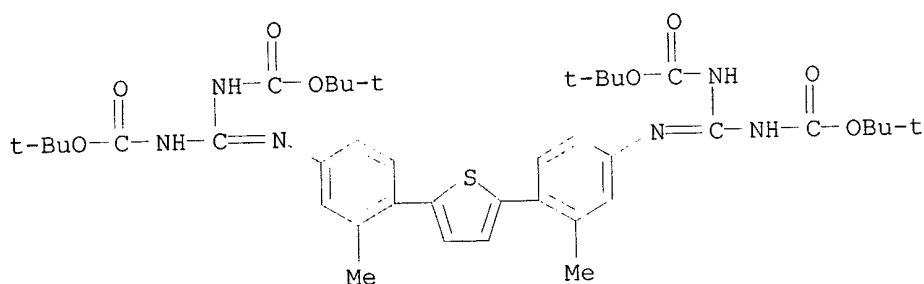


RN 423165-67-7 HCAPLUS

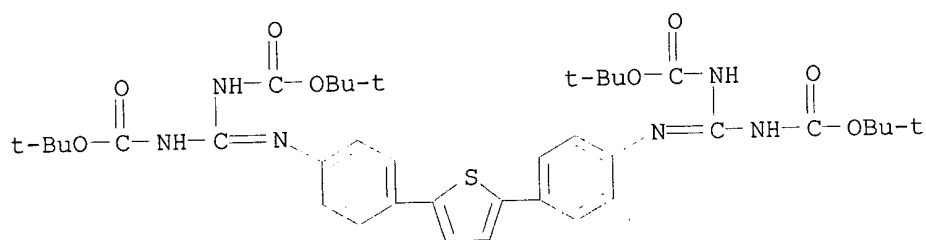
CN Carbamic acid, [2,5-furandiylbis[(2-ethoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



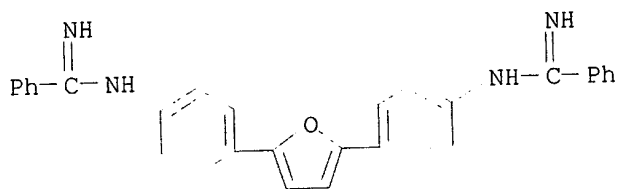
RN 423165-70-2 HCAPLUS
 CN Carbamic acid, [2,5-thiophenediylbis[(3-methyl-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 423165-73-5 HCAPLUS
 CN Carbamic acid, [2,5-thiophenediylbis(4,1-phenylenenitrilomethanetetrayl)]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



IT 347191-02-0P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (reversed amidines for treating, preventing, or inhibiting leishmaniasis)
 RN 347191-02-0 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI) (CA INDEX NAME)



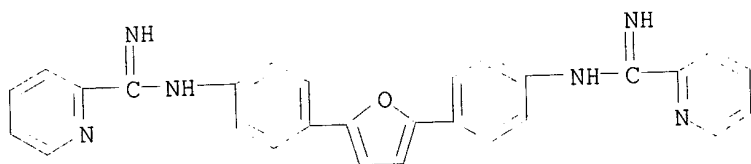
IT 347190-99-2P 347191-03-1P 347191-04-2P
 347191-07-5P 347191-09-7P 347191-14-4P
 347191-16-6P 347191-18-8P 347191-20-2P
 423165-06-4P 423165-09-7P 423165-22-4P
 423165-25-7P 423165-28-0P 423165-29-1P
 423165-31-5P 423165-62-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(reversed amidines for treating, preventing, or inhibiting
 leishmaniasis)

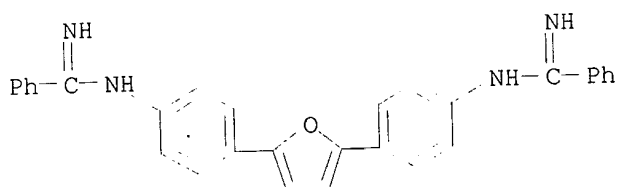
RN 347190-99-2 HCAPLUS

CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
 (CA INDEX NAME)



RN 347191-03-1 HCAPLUS

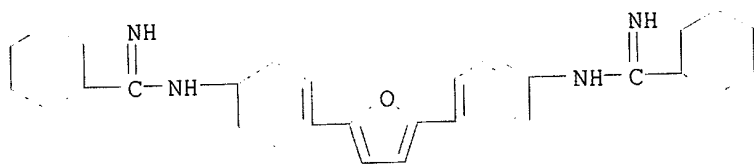
CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



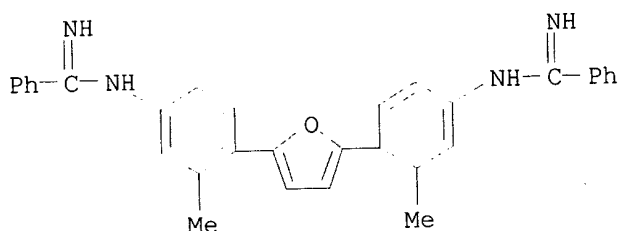
●2 HCl

RN 347191-04-2 HCAPLUS

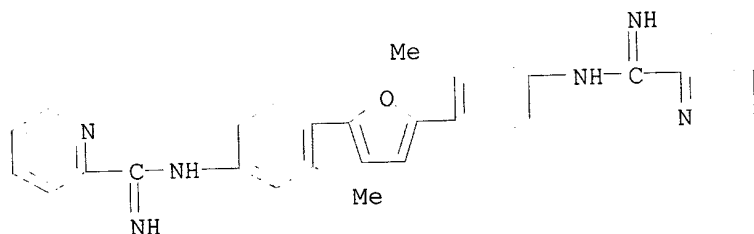
CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-
 (9CI) (CA INDEX NAME)



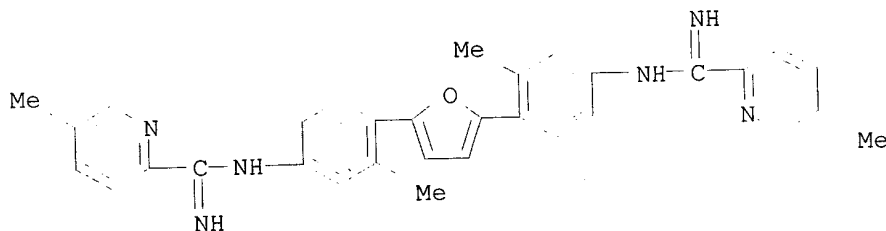
RN 347191-07-5 HCAPLUS
 CN Benzenecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



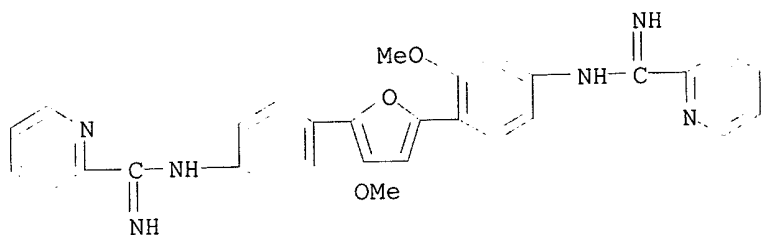
RN 347191-09-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



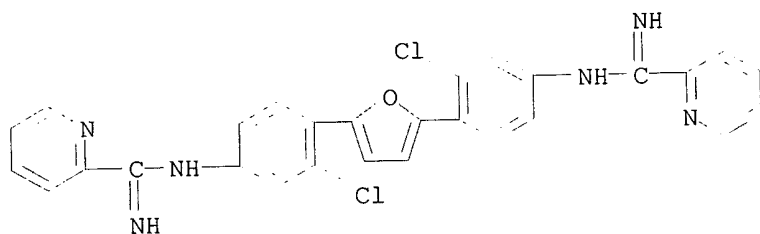
RN 347191-14-4 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl- (9CI) (CA INDEX NAME)



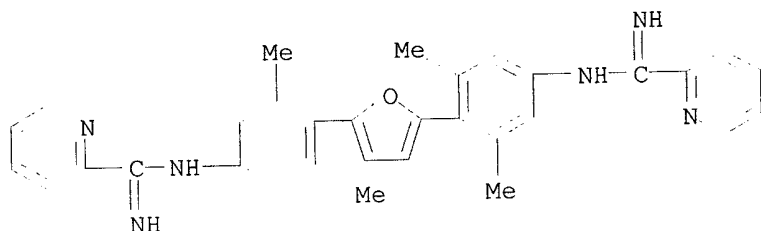
RN 347191-16-6 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



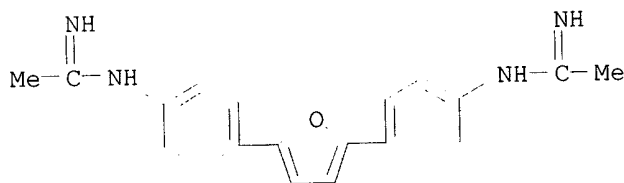
RN 347191-18-8 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



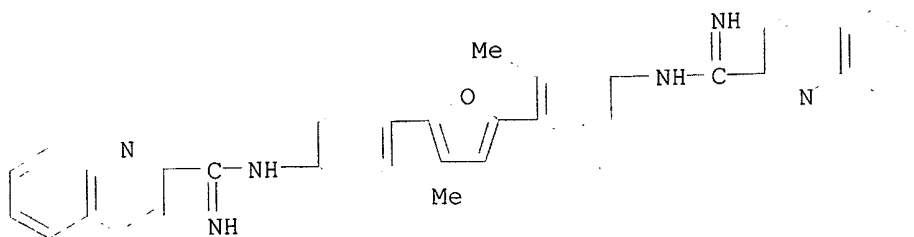
RN 347191-20-2 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 423165-06-4 HCAPLUS
 CN Ethanamide, N,N'-[(2,5-furandiylbis(3-methyl-4,1-phenylene))]bis- (9CI) (CA INDEX NAME)

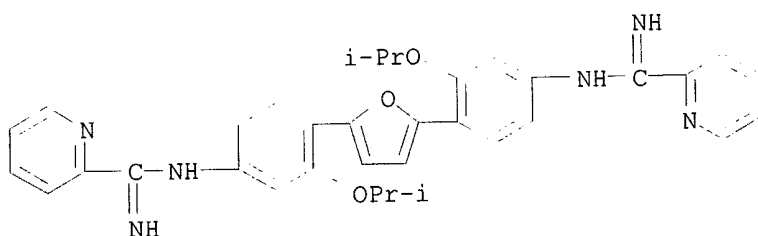


RN 423165-09-7 HCAPLUS
 CN 2-Quinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)

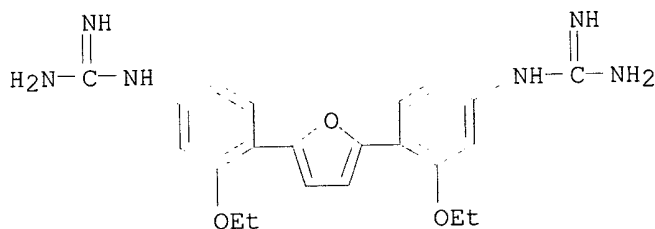


RN 423165-22-4 HCAPLUS

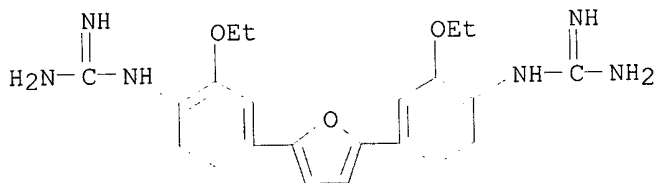
CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis- (9CI) (CA INDEX NAME)



RN 423165-25-7 HCAPLUS

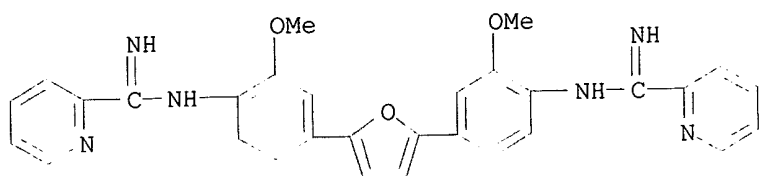
CN Guanidine, N,N,N'-[2,5-furandiylbis(3-ethoxy-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)

RN 423165-28-0 HCAPLUS

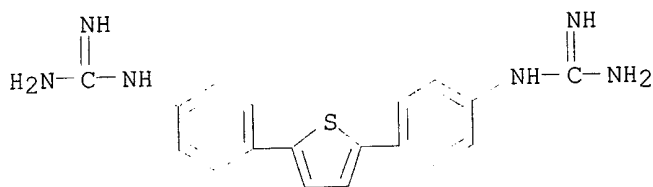
CN Guanidine, N,N,N'-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)

RN 423165-29-1 HCAPLUS

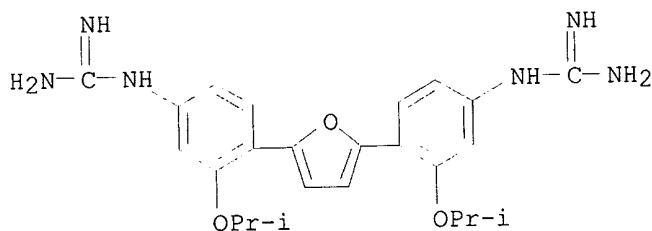
CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 423165-31-5 HCAPLUS
 CN Guanidine, N,N'''-(2,5-thiophenediyl-di-4,1-phenylene)bis- (9CI) (CA INDEX NAME)

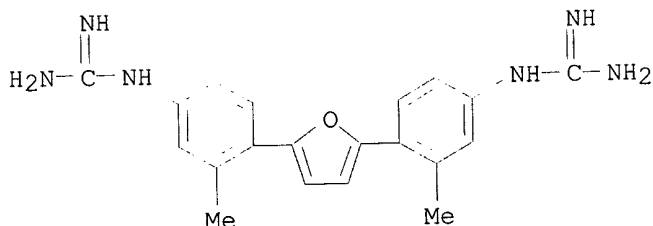


RN 423165-62-2 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis- (9CI) (CA INDEX NAME)



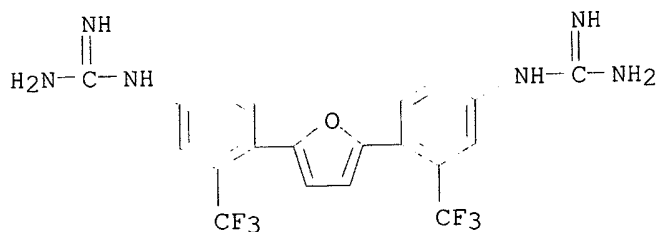
IT 423165-10-0 423165-11-1 423165-12-2
 423165-16-6 423165-17-7 423165-18-8
 423165-19-9 423165-20-2 423165-21-3
 423165-23-5 423165-24-6 423165-26-8
 423165-27-9 423165-30-4
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (reversed amidines for treating, preventing, or inhibiting
 leishmaniasis)

RN 423165-10-0 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI)
 (CA INDEX NAME)



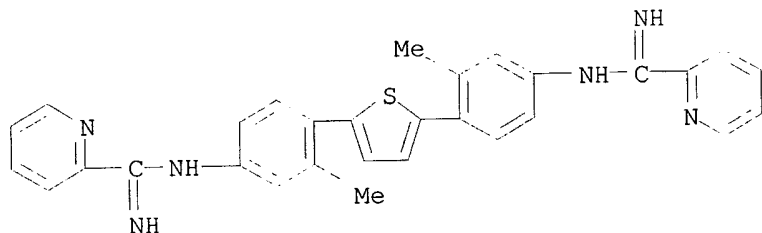
RN 423165-11-1 HCAPLUS

CN Guanidine, N,N'''-[2,5-furandiylbis[3-(trifluoromethyl)-4,1-phenylene]]bis-
(9CI) (CA INDEX NAME)



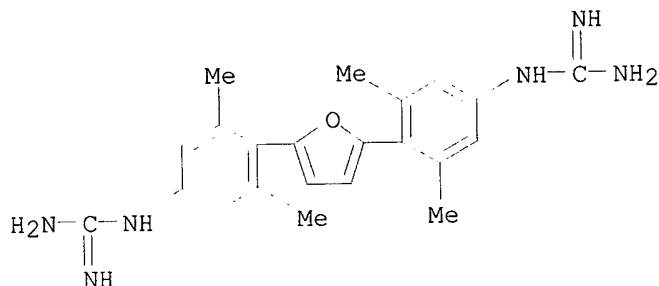
RN 423165-12-2 HCAPLUS

CN 2-Pyridinecarboximidamide, N,N'''-[2,5-thiophenediylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



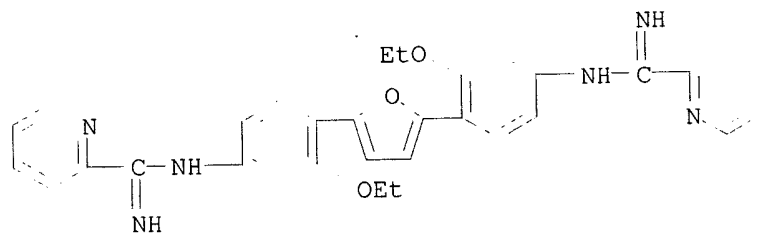
RN 423165-16-6 HCAPLUS

CN Guanidine, N,N'''-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)



RN 423165-17-7 HCAPLUS

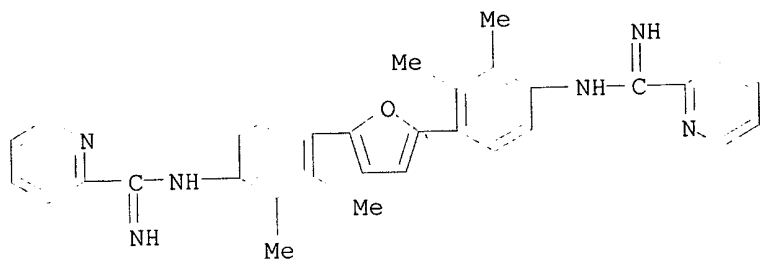
CN 2-Pyridinecarboximidamide, N,N'''-[2,5-furandiylbis(3-ethoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 423165-18-8 HCAPLUS

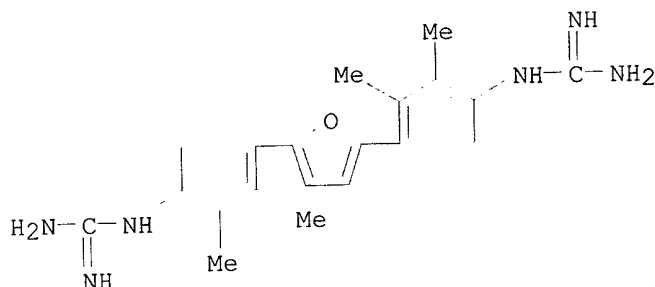
CN 2-Pyridinecarboximidamide, N,N'''-[2,5-furandiylbis(2,3-dimethyl-4,1-phenylene)]bis-

phenylene)]bis- (9CI) (CA INDEX NAME)



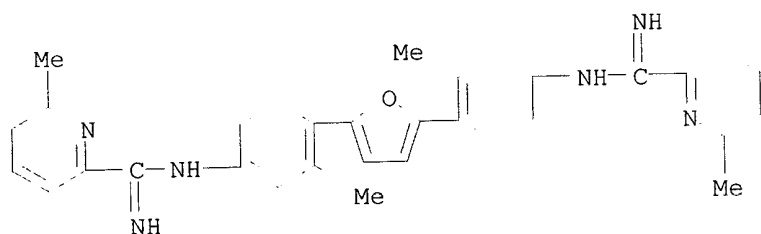
RN 423165-19-9 HCAPLUS

CN Guanidine, N,N''-[2,5-furandiylbis(2,3-dimethyl-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)



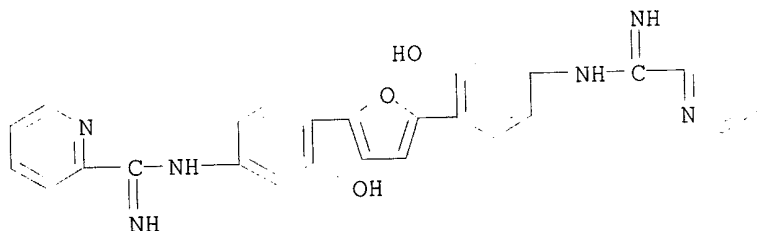
RN 423165-20-2 HCAPLUS

CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[6-methyl- (9CI) (CA INDEX NAME)



RN 423165-21-3 HCAPLUS

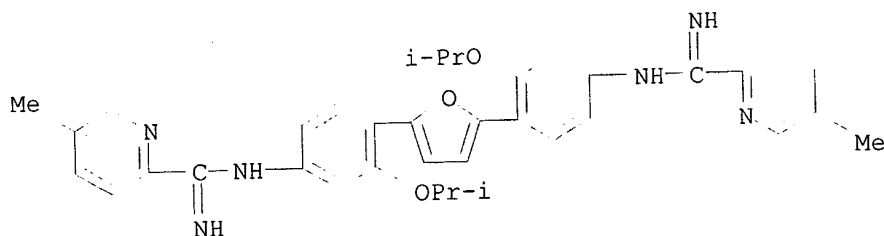
CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis(3-hydroxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



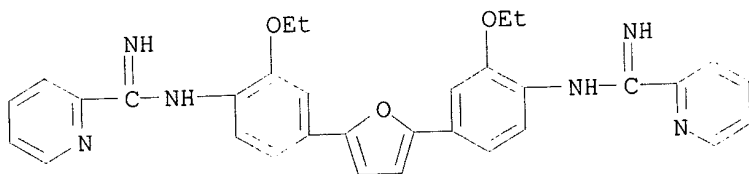
RN 423165-23-5 HCAPLUS

CN 2-Pyridinecarboximidamide, N,N''-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-

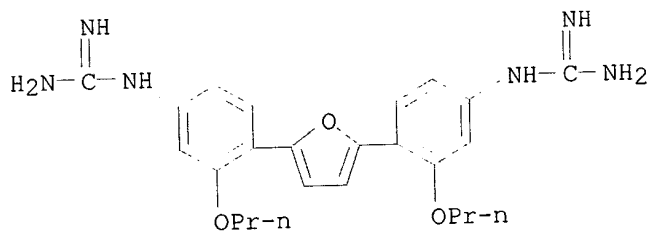
phenylene]]bis[5-methyl- (9CI) (CA INDEX NAME)



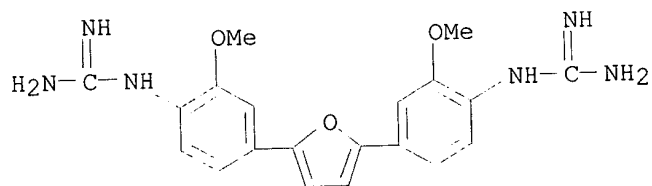
RN 423165-24-6 HCAPLUS
CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



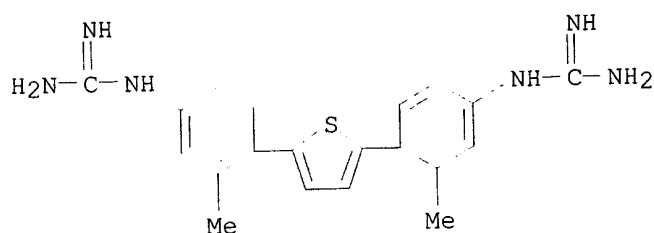
RN 423165-26-8 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis(3-propoxy-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)



RN 423165-27-9 HCAPLUS
CN Guanidine, N,N'''-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)



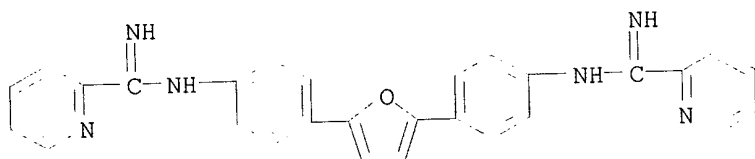
RN 423165-30-4 HCAPLUS
CN Guanidine, N,N'''-[2,5-thiophenediylbis(3-methyl-4,1-phenylene)]bis- (9CI)
(CA INDEX NAME)



IT 347191-00-8P 347191-05-3P 347191-08-6P
 347191-11-1P 347191-15-5P 347191-17-7P
 347191-19-9P 347191-21-3P 423165-54-2P
 423165-55-3P 423165-56-4P 423165-57-5P
 423165-58-6P 423165-59-7P 423165-61-1P
 423165-64-4P 423165-66-6P 423165-69-9P
 423165-71-3P 423165-74-6P

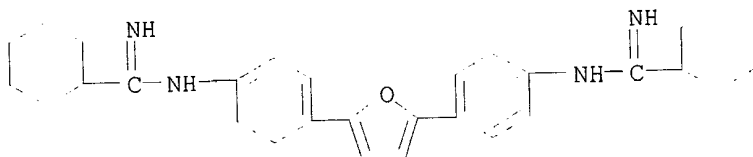
RL: SPN (Synthetic preparation); PREP (Preparation)
 (reversed amidines for treating, preventing, or inhibiting
 leishmaniasis)

RN 347191-00-8 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 hydrochloride (2:7) (9CI) (CA INDEX NAME)



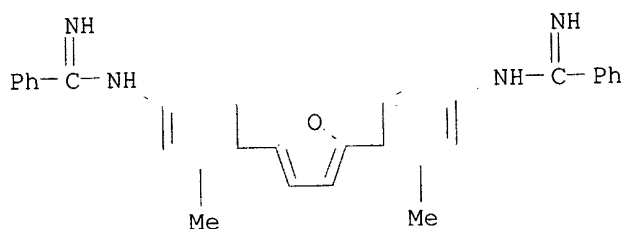
● 7/2 HCl

RN 347191-05-3 HCAPLUS
 CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



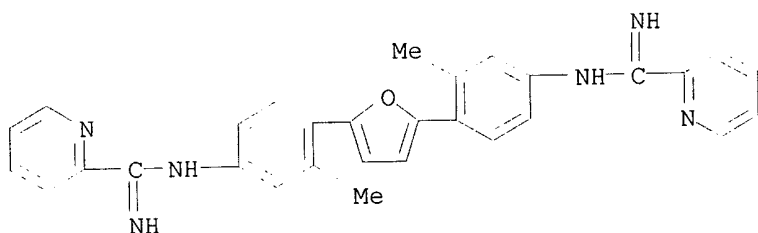
● 2 HCl

RN 347191-08-6 HCAPLUS
 CN Benzenecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-
 phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



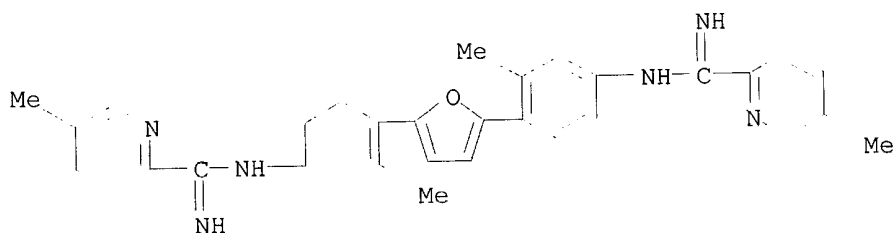
● 2 HCl

RN 347191-11-1 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, hydrochloride (2:7) (9CI) (CA INDEX NAME)



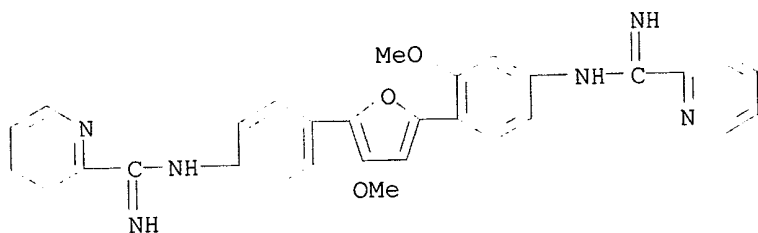
● 7/2 HCl

RN 347191-15-5 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl-, hydrochloride (4:13) (9CI) (CA INDEX NAME)



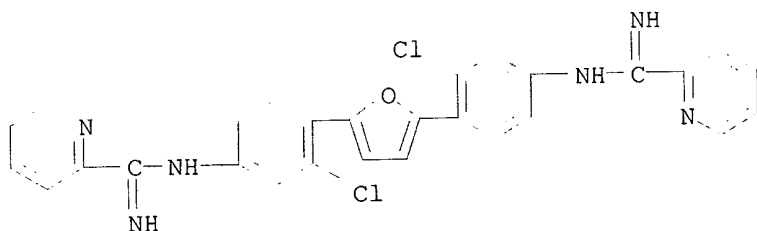
● 13/4 HCl

RN 347191-17-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



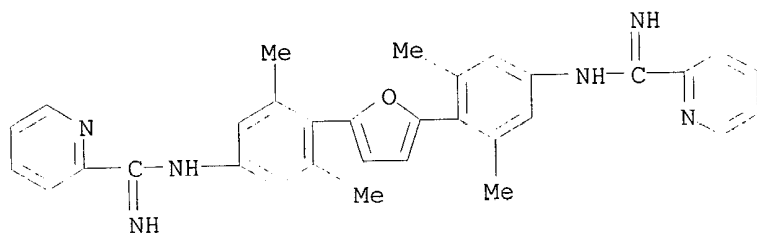
● 2 HCl

RN 347191-19-9 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



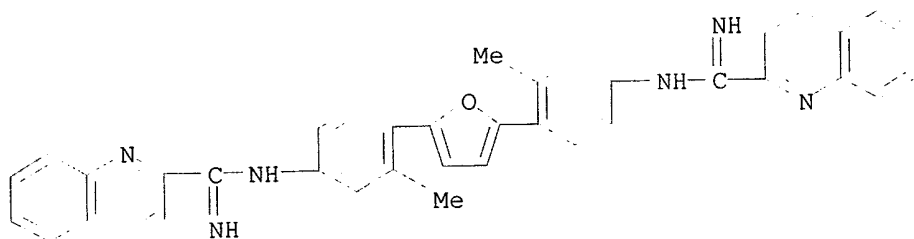
● 2 HCl

RN 347191-21-3 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, hydrochloride (4:15) (9CI) (CA INDEX NAME)



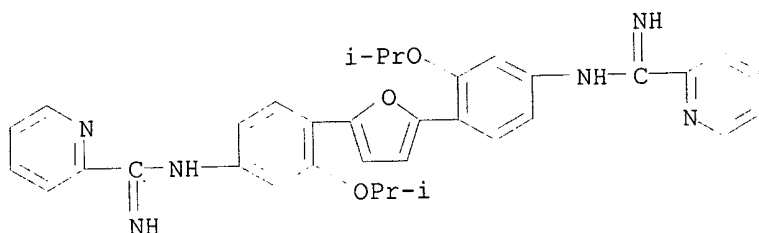
● 15/4 HCl

RN 423165-54-2 HCAPLUS
 CN 2-Quinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



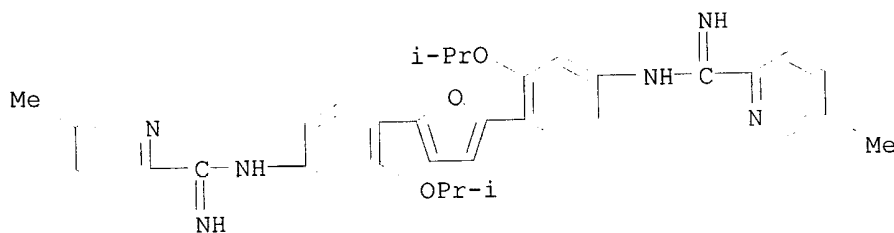
● 2 HCl

RN 423165-55-3 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)



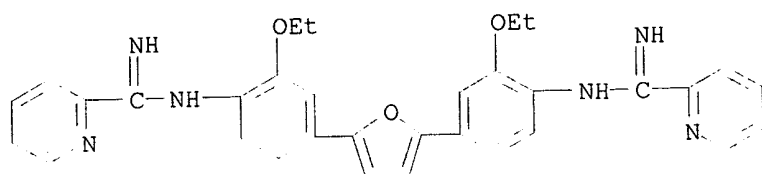
● 2 HCl

RN 423165-56-4 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis[5-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



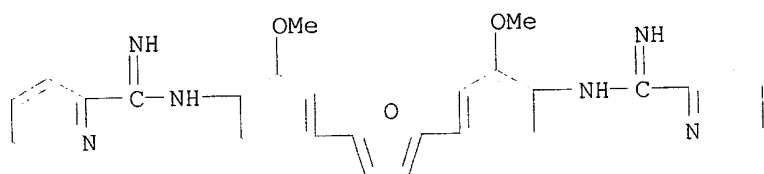
● 2 HCl

RN 423165-57-5 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



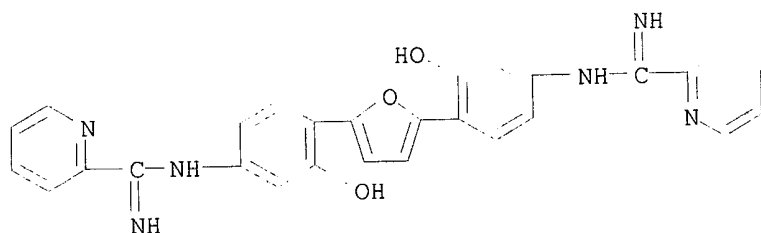
●2 HCl

RN 423165-58-6 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



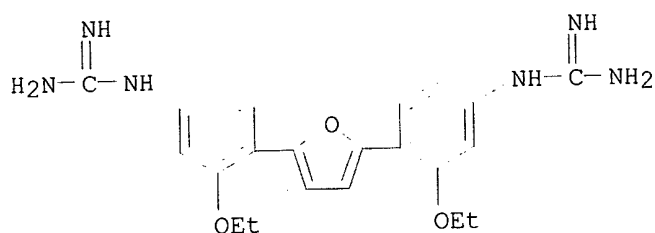
●2 HCl

RN 423165-59-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-hydroxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



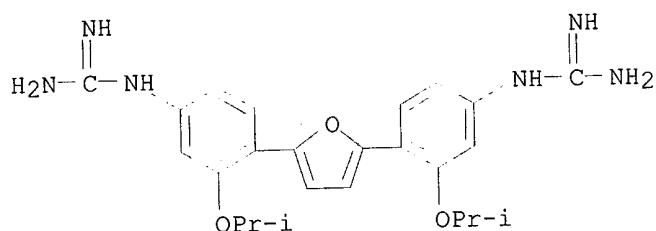
●2 HCl

RN 423165-61-1 HCAPLUS
 CN Guanidine, N,N'-[2,5-furandiylbis(3-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



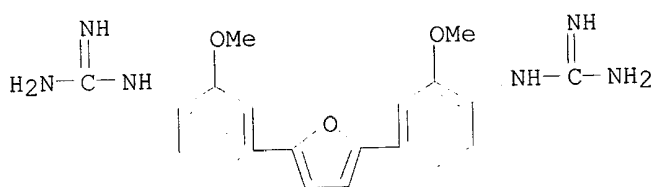
● 2 HCl

RN 423165-64-4 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis[3-(1-methylethoxy)-4,1-phenylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)



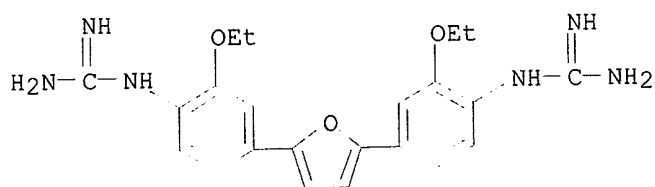
● 2 HCl

RN 423165-66-6 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(2-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



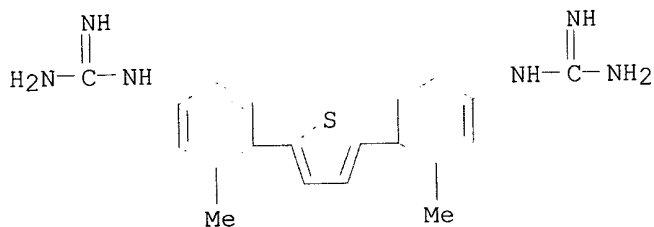
● 2 HCl

RN 423165-69-9 HCAPLUS
 CN Guanidine, N,N'''-[2,5-furandiylbis(2-ethoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



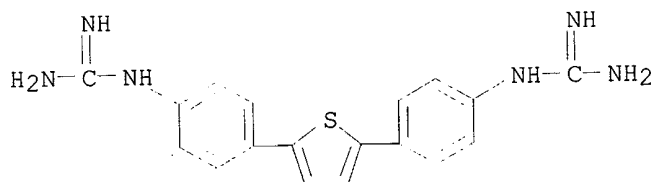
●2 HCl

RN 423165-71-3 HCAPLUS
 CN Guanidine, N,N'''-[2,5-thiophenediylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

RN 423165-74-6 HCAPLUS
 CN Guanidine, N,N'''-(2,5-thiophenediyl-di-4,1-phenylene)bis-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L12 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:301099 HCAPLUS
 DN 135:76736
 TI Diguandino and "Reversed" Diamidino 2,5-Diarylfurans as Antimicrobial Agents
 AU **Stephens, Chad E.**; Tanious, Farial; Kim, Susan; **Wilson, W. David**; Schell, Wiley A.; **Perfect, John R.**; Franzblau, Scott G.; **Boykin, David W.**
 CS Department of Chemistry, Georgia State University, Atlanta, GA, 30303-3083, USA
 SO Journal of Medicinal Chemistry (2001), 44(11), 1741-1748

CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
CC 27-6 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1
OS CASREACT 135:76736
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB Dicationic 2,5-bis(4-guanidinophenyl)furans, e.g. I, 2,5-bis[4-(arylimino)aminophenyl]furans, e.g. II, and 2,5-bis[4-(alkylimino)aminophenyl]furans, e.g. III have been synthesized starting from 2,5-bis[tri-n-butylstannyl]furan. Thermal melting studies with poly dA.bul.dT and the duplex oligomer d(CGCGAATTCGCG)₂ demonstrated high DNA binding affinities for a no. of the compds. The binding affinities are highly dependent on structure and are significantly affected by substituents both on the Ph rings of the 2,5-diphenylfuran nucleus and on the cationic centers. Of the 17 novel dicationic compds. synthesized, six exhibited MICs of 2 .mu.g/mL or less vs. Mycobacterium tuberculosis. Of the compds. screened against Candida albicans, three gave MICs of 2 .mu.g/mL or less (I, II and IV) and two (I, II) were fungicidal, unlike a std. antifungal drug fluconazole, which was fungistatic. In addn., one of the tested compds. II exhibited a MIC of <1 .mu.g/mL against Aspergillus fumigatus, while also being a fungicidal against this organism. Finally, when evaluated against an expanded fungal panel, compd. IV showed good activity against Cryptococcus neoformans and Rhizopus arrhizus.
- ST fungicidal antituberculostatic amidinophenylfuran; substituent effect DNA binding affinity arylfuran cationic; arylfuran amidino guanidino antimicrobial agent prepn; furan guanidinophenyl prepn; amidinophenyl furan imino prepn
- IT Imidic acids
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(esters, thio; prepn. of (naphthylmethyl)thioimides from (bromomethyl)naphthalene and thioamides in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)
- IT Structure-activity relationship
(fungicidal; prepn. of (naphthylmethyl)thioimides from (bromomethyl)naphthalene and thioamides in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)
- IT Thioamides
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of (naphthylmethyl)thioimides from (bromomethyl)naphthalene and thioamides in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)
- IT Fungicides
Tuberculostatics
(prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)
- IT 347191-26-8P
RL: BYP (Byproduct); PREP (Preparation)
(formation of monoamidine byproduct in prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)
- IT 180002-24-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(formation of monoamidine byproduct in prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)
- IT 939-26-4, 2-(Bromomethyl)naphthalene 2227-79-4, Thiobenzamide

7390-42-3, Cyclohexanecarbothioamide 96898-30-5, Quinoline-2-carbothioamide

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of (naphthylmethyl)thioimidates from (bromomethyl)naphthalene and thioamides in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)

IT 347191-22-4P 347191-23-5P 347191-24-6P 347191-25-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of (naphthylmethyl)thioimidates from (bromomethyl)naphthalene and thioamides in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)

IT 347190-93-6P 347190-94-7P 347190-95-8P

347190-96-9P 347190-97-0P 347190-98-1P

347191-00-8P 347191-03-1P 347191-05-3P

347191-06-4P 347191-08-6P 347191-11-1P

347191-13-3P 347191-15-5P 347191-17-7P

347191-19-9P 347191-21-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)

IT 367-67-9 586-78-7, 4-Bromo-1-nitrobenzene 7149-70-4,

1-Bromo-2-methyl-4-nitrobenzene 29682-39-1, 1-Bromo-2-chloro-4-

nitrobenzene 53906-84-6, 4-Bromo-3,5-dimethylnitrobenzene 77337-82-7,

1-Bromo-2-methoxy-4-nitrobenzene 107819-90-9 193361-76-1,

2,5-Bis(tributylstannyl)furan

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)

IT 53715-17-6P 56297-30-4P 251577-90-9P 347190-78-7P 347190-79-8P

347190-80-1P 347190-81-2P 347190-82-3P 347190-83-4P 347190-84-5P

347190-85-6P 347190-86-7P 347190-87-8P 347190-88-9P

347190-89-0P 347190-90-3P 347190-91-4P

347190-92-5P 347190-99-2P 347191-01-9P

347191-02-0P 347191-04-2P 347191-07-5P

347191-09-7P 347191-10-0P 347191-12-2P

347191-14-4P 347191-16-6P 347191-18-8P

347191-20-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)

IT 100-70-9, 2-Cyanopyridine 1620-77-5, 2-Cyano-5-methylpyridine

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of pyridinethiocarboxamide from (cyano)pyridine and thioacetamide in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)

IT 5346-38-3P, 2-Pyridinecarbothioamide 334017-98-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of pyridinethiocarboxamide from (cyano)pyridine and thioacetamide in synthesis of bis(amidinoaryl)furans as antifungicidal and antituberculosis agents)

RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Apted, F; Pharmacol Ther 1980, V11, P391 MEDLINE

(2) Bailly, C; Anti-Cancer Drug Design 1999, V14, P47 HCAPLUS

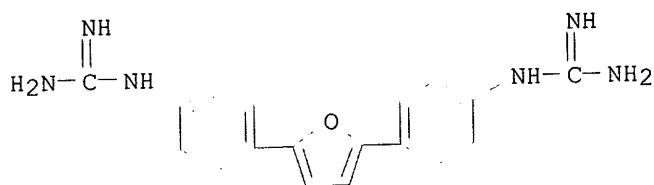
(3) Bajic, M; Heterocyclic Comm 1996, V2, P135 HCAPLUS

(4) Beerman, T; Biochim Biophys Acta 1992, V1131, P52

(5) Bell, C; Antimicrob Agents Chemother 1990, V34, P1381 HCAPLUS

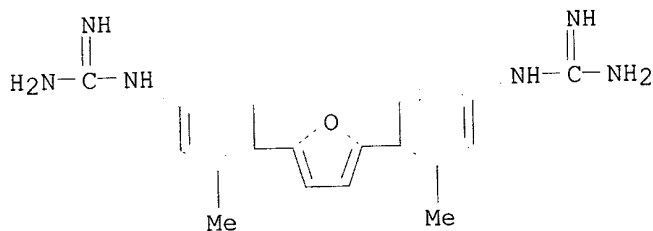
(6) Bell, C; Antimicrob Agents Chemother 1991, V35, P1099 HCAPLUS

- (7) Bell, C; Antimicrob Agents Chemother 1993, V37, P2668 HCAPLUS
 (8) Blagburn, B; Antimicrob Agents Chemother 1991, V35, P1520 HCAPLUS
 (9) Blagburn, B; J Parasitol 1998, V84, P851 HCAPLUS
 (10) Boykin, D; J Med Chem 1995, V38, P912 HCAPLUS
 (11) Boykin, D; J Med Chem 1998, V41, P124 HCAPLUS
 (12) Bryceson, A; Trans R Soc Trop Med Hyg 1985, V79, P705 MEDLINE
 (13) Collins, J; J Med Chem 1998, V41, P2858 HCAPLUS
 (14) Collins, L; Antimicrob Agents Chemother 1997, V41, P1004 HCAPLUS
 (15) Das, B; J Med Chem 1976, V20, P531
 (16) Del Poeta, M; Antimicrob Agents Chemother 1998, V42, P2495 HCAPLUS
 (17) Del Poeta, M; Antimicrob Agents Chemother 1998, V42, P2503 HCAPLUS
 (18) Del Poeta, M; J Antimicrob Chemother 1999, V44, P223 HCAPLUS
 (19) Dykstra, C; Antimicrob Agents Chemother 1994, V38, P1890 HCAPLUS
 (20) Fitzgerald, D; J Biol Chem 1999, V274, P27128 HCAPLUS
 (21) Francesconi, I; J Med Chem 1999, V42, P2260 HCAPLUS
 (22) Fulton, J; Ann Trop Med Parasitol 1940, V34, P53 HCAPLUS
 (23) Guerri, A; Nucleic Acids Res 1998, V26, P2873 HCAPLUS
 (24) Henderson, D; Nature Med 1995, V1, P525 HCAPLUS
 (25) Hildebrandt, E; J Euk Microbial 1998, V45, P112 HCAPLUS
 (26) Hughes, W; Antimicrob Agents Chemother 1974, V5, P289 HCAPLUS
 (27) Ivady, V; Monatschr Kinderheilkd 1958, V106, P10
 (28) Karrer, P; Helv Chim Acta 1945, V28, P820 HCAPLUS
 (29) King, H; Ann Trop Med Parasitol 1938, V32, P177 HCAPLUS
 (30) Kirk, R; Ann Trop Med Parasitol 1940, V34, P181
 (31) Kravtsov, D; J Organomet Chem 1972, V36, P227 HCAPLUS
 (32) Kumar, A; Heterocyclic Comm 1999, V5, P301 HCAPLUS
 (33) Laughton, C; Biochemistry 1996, V35, P5655 HCAPLUS
 (34) Lindsay, D; Antimicrob Agents Chemother 1991, V35, P1914 HCAPLUS
 (35) Ling, C; J Am Chem Soc 1994, V116, P8784 HCAPLUS
 (36) Lourie, E; Ann Trop Med Parasitol 1937, V31, P435 HCAPLUS
 (37) Lourie, E; Ann Trop Med Parasitol 1939, V33, P289 HCAPLUS
 (38) Lourie, E; Ann Trop Med Parasitol 1939, V33, P305
 (39) Mazur, S; J Mol Biol 2000, V300, P321 HCAPLUS
 (40) McGinnis, M; Laboratory Handbook of Medical Mycology 1980, P431
 (41) Moynehan, T; J Chem Soc 1962, P2637 HCAPLUS
 (42) National Committee For Clinical Laboratory Standards; Reference method for broth dilution susceptibility testing of yeasts Document M27-T Tentative standard 1995
 (43) Shearer, B; Tetrahedron Lett 1997, V38, P179 HCAPLUS
 (44) Su, W; Synth Commun 1996, V26, P407 HCAPLUS
 (45) Tanious, F; J Biomol Struct, Dyn 1994, V11, P1063 HCAPLUS
 (46) Taylor, E; J Am Chem Soc 1960, V82, P2656 HCAPLUS
 (47) Trent, J; J Med Chem 1996, V36, P4554
 (48) Wepster, B; Recl Trav Chim 1954, V73, P809 HCAPLUS
 (49) Wilson, W; J Am Chem Soc 1998, V120, P10310 HCAPLUS
- IT 347190-93-6P 347190-94-7P 347190-95-8P
 347190-96-9P 347190-97-0P 347190-98-1P
 347191-00-8P 347191-03-1P 347191-05-3P
 347191-06-4P 347191-08-6P 347191-11-1P
 347191-13-3P 347191-15-5P 347191-17-7P
 347191-19-9P 347191-21-3P
- RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)
- RN 347190-93-6 HCAPLUS
 CN Guanidine, N,N'''-(2,5-furandiyl-di-4,1-phenylene)bis-, dihydrochloride (9CI) (CA INDEX NAME)



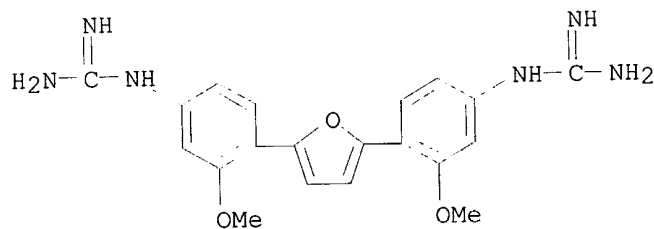
● 2 HCl

RN 347190-94-7 HCAPLUS
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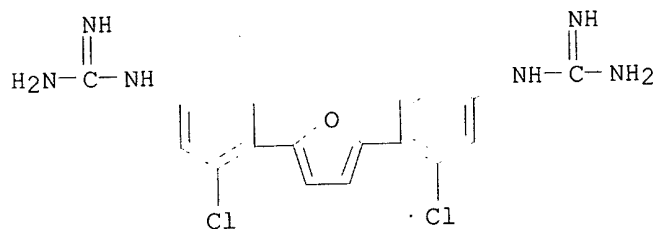
● 2 HCl

RN 347190-95-8 HCAPLUS
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 dihydrochloride (9CI) (CA INDEX NAME)



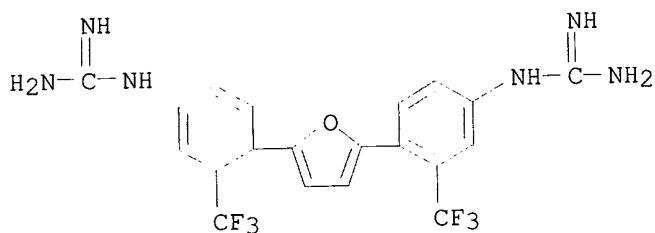
● 2 HCl

RN 347190-96-9 HCAPLUS
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 dihydrochloride (9CI) (CA INDEX NAME)



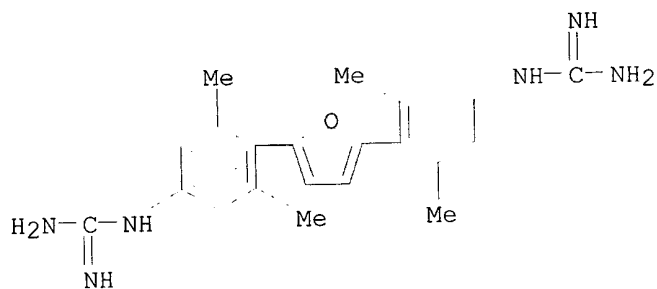
● 2 HCl

RN 347190-97-0 HCAPLUS
 CN Guanidine, N,N'-[2,5-furandiylbis(3-(trifluoromethyl)-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



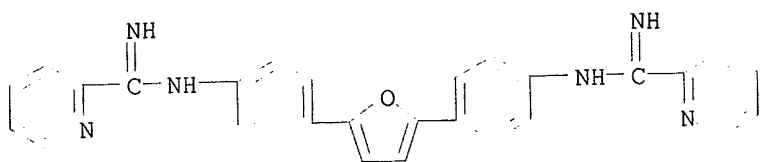
● 2 HCl

RN 347190-98-1 HCAPLUS
 CN Guanidine, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



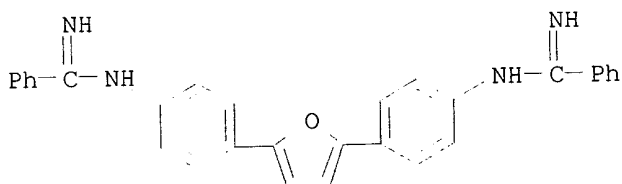
● 2 HCl

RN 347191-00-8 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl)-4,1-phenylene)bis-, hydrochloride (2:7) (9CI) (CA INDEX NAME)



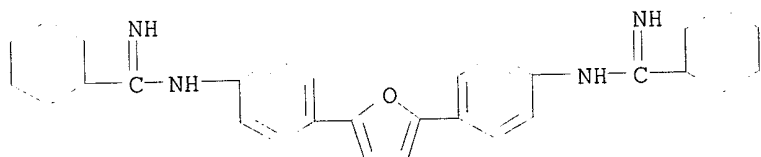
● 7/2 HCl

RN 347191-03-1 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



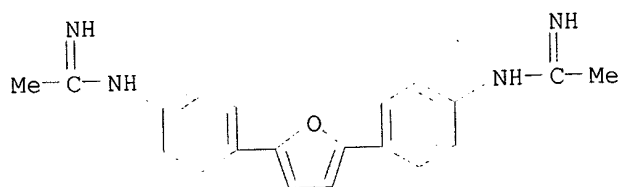
● 2 HCl

RN 347191-05-3 HCAPLUS
 CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-,
 dihydrochloride (9CI) (CA INDEX NAME)



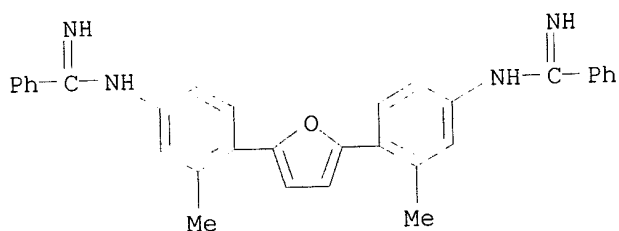
● 2 HCl

RN 347191-06-4 HCAPLUS
 CN Ethanimidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-, dihydrobromide
 (9CI) (CA INDEX NAME)



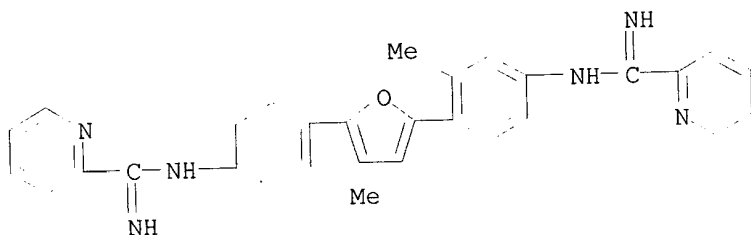
●2 HBr

RN 347191-08-6 HCAPLUS
 CN Benzenecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



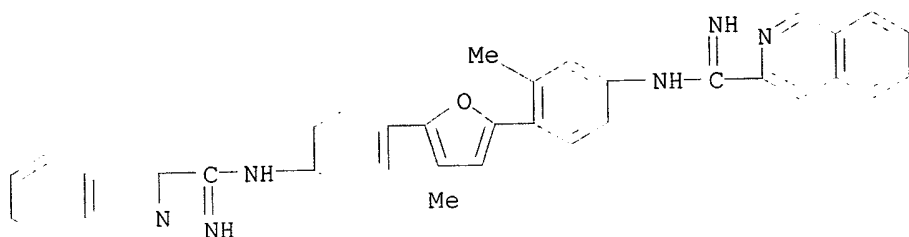
●2 HCl

RN 347191-11-1 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, hydrochloride (2:7) (9CI) (CA INDEX NAME)



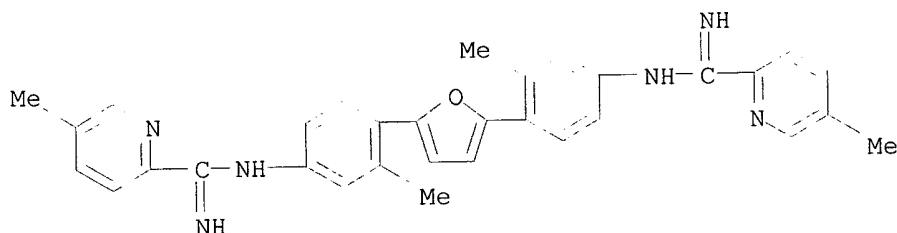
●7/2 HCl

RN 347191-13-3 HCAPLUS
 CN 3-Isoquinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



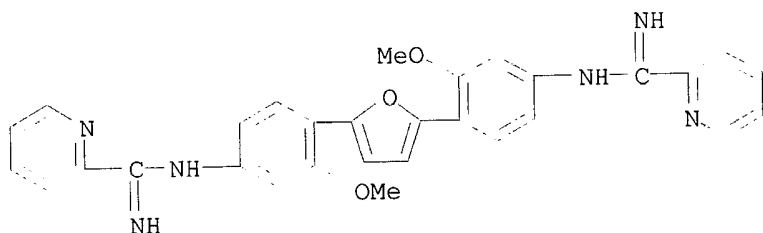
● 2 HCl

RN 347191-15-5 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis-, hydrochloride (4:13) (9CI) (CA INDEX NAME)



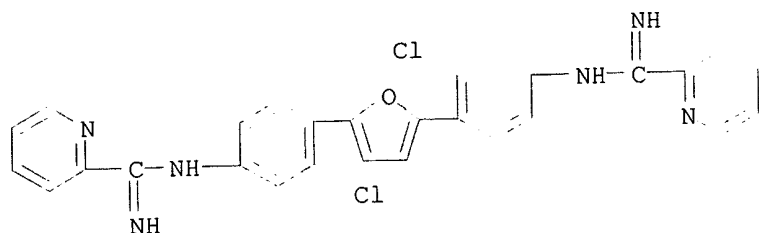
● 13/4 HCl

RN 347191-17-7 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



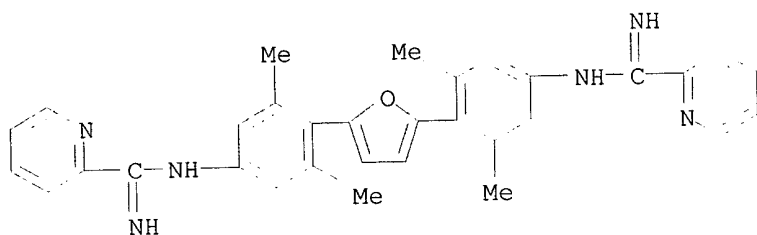
● 2 HCl

RN 347191-19-9 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 347191-21-3 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis-, hydrochloride (4:15) (9CI) (CA INDEX NAME)

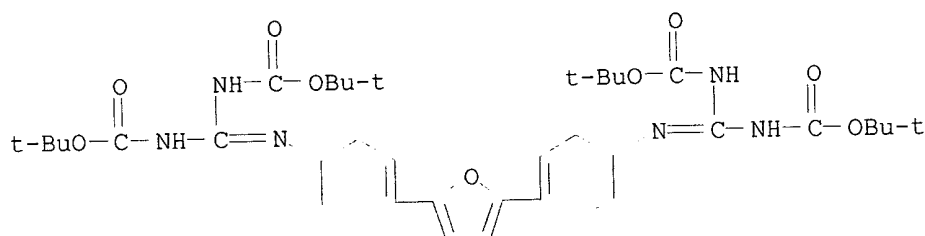


● 15/4 HCl

IT 347190-87-8P 347190-88-9P 347190-89-0P
 347190-90-3P 347190-91-4P 347190-92-5P
 347190-99-2P 347191-02-0P 347191-04-2P
 347191-07-5P 347191-09-7P 347191-12-2P
 347191-14-4P 347191-16-6P 347191-18-8P
 347191-20-2P

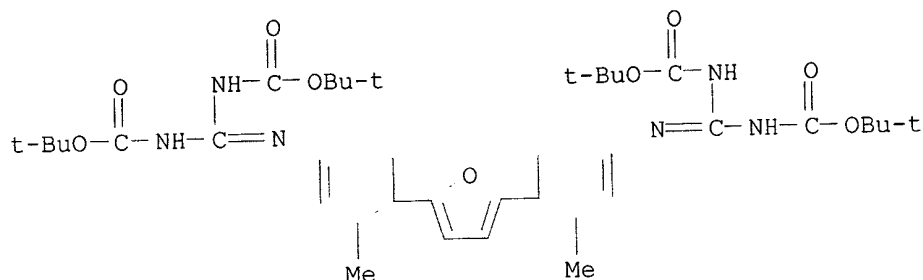
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of bis(guanidinoaryl)- and bis(amidinoaryl)furans as antifungal and antituberculosis agents)

RN 347190-87-8 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis(4,1-phenylenenitrilomethanetetrayl)]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

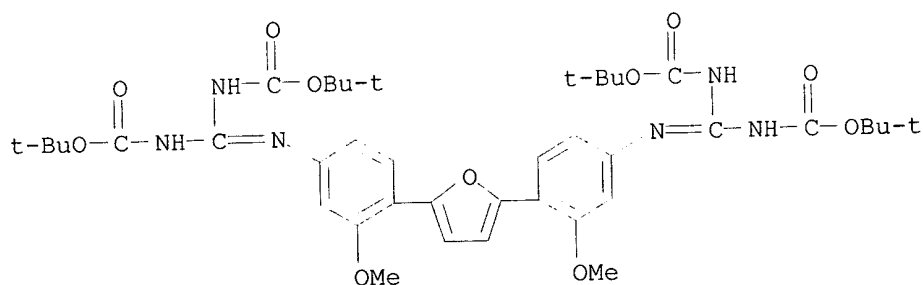


RN 347190-88-9 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-methyl-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl)

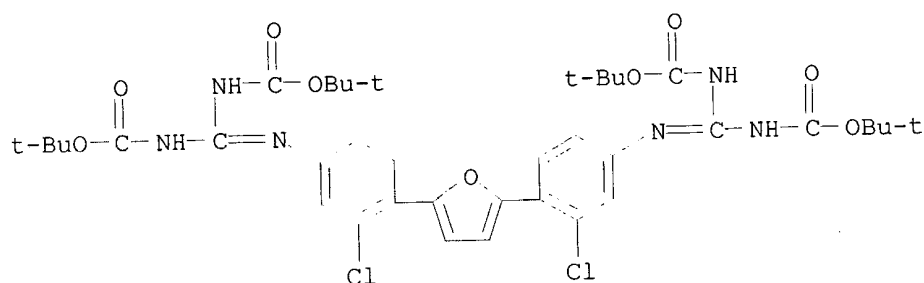
ester (9CI) (CA INDEX NAME)



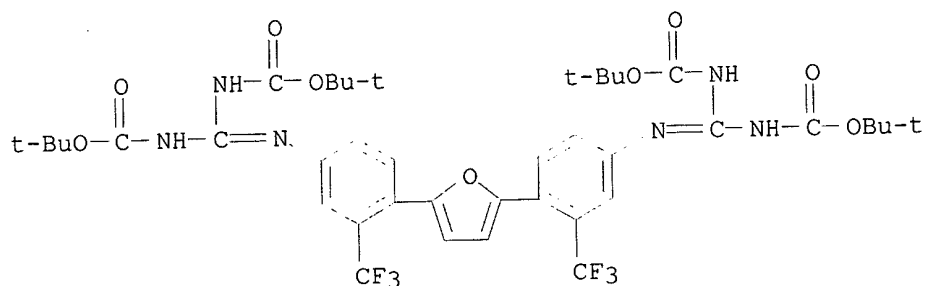
RN 347190-89-0 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-methoxy-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



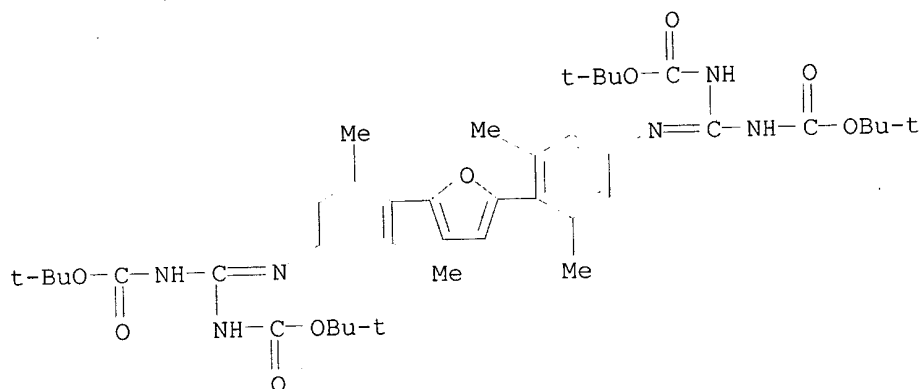
RN 347190-90-3 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3-chloro-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



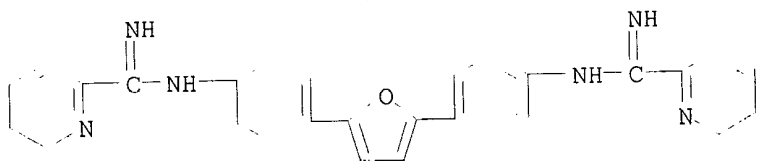
RN 347190-91-4 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[[3-(trifluoromethyl)-4,1-phenylene]nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



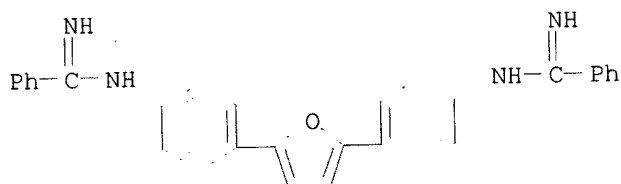
RN 347190-92-5 HCAPLUS
 CN Carbamic acid, [2,5-furandiylbis[(3,5-dimethyl-4,1-phenylene)nitrilomethanetetrayl]]tetrakis-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 347190-99-2 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
 (CA INDEX NAME)

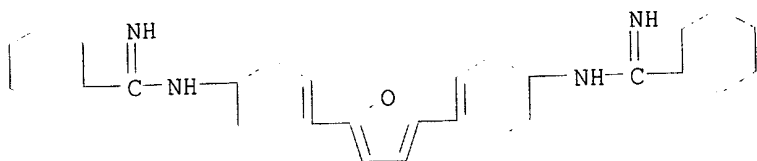


RN 347191-02-0 HCAPLUS
 CN Benzenecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis- (9CI)
 (CA INDEX NAME)

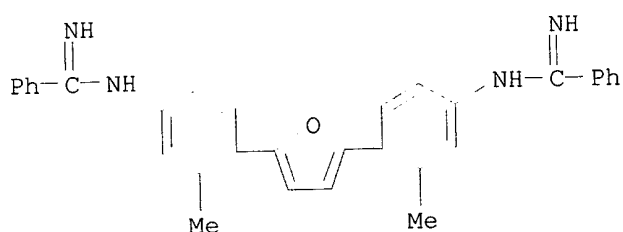


RN 347191-04-2 HCAPLUS

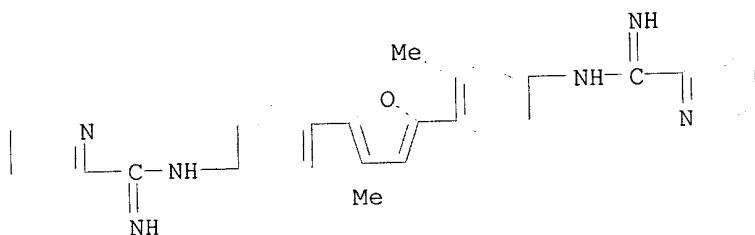
CN Cyclohexanecarboximidamide, N,N'-(2,5-furandiyl-di-4,1-phenylene)bis-
(9CI) (CA INDEX NAME)



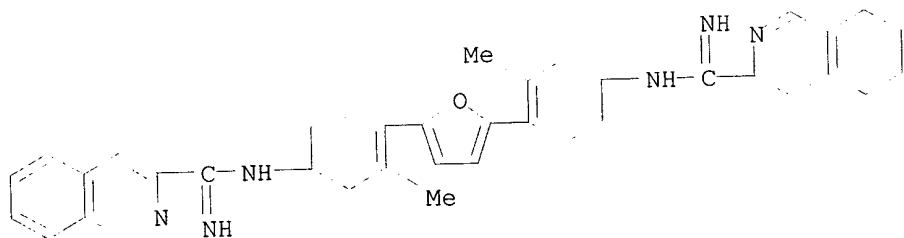
RN 347191-07-5 HCAPLUS
CN Benzenecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



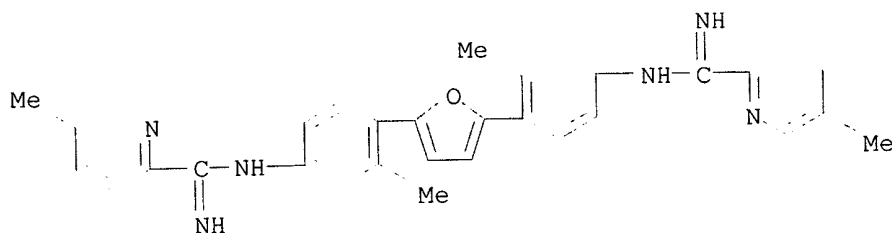
RN 347191-09-7 HCAPLUS
CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



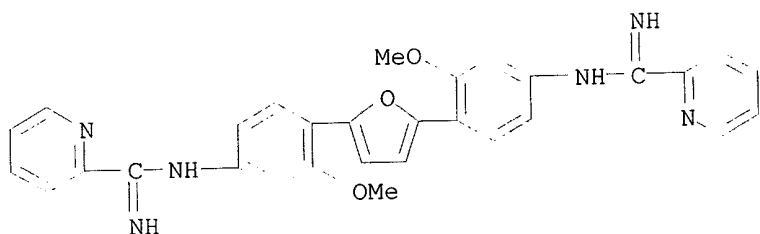
RN 347191-12-2 HCAPLUS
CN 3-Isoquinolinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



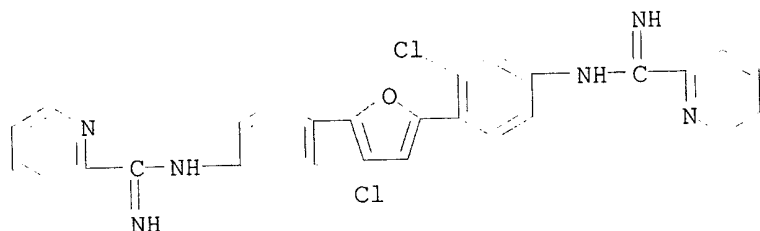
RN 347191-14-4 HCAPLUS
CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methyl-4,1-phenylene)]bis[5-methyl- (9CI) (CA INDEX NAME)]



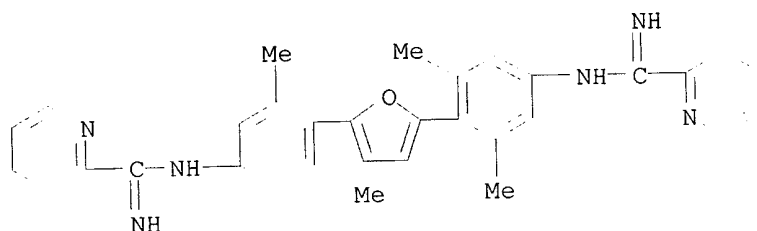
RN 347191-16-6 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-methoxy-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 347191-18-8 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3-chloro-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



RN 347191-20-2 HCAPLUS
 CN 2-Pyridinecarboximidamide, N,N'-[2,5-furandiylbis(3,5-dimethyl-4,1-phenylene)]bis- (9CI) (CA INDEX NAME)



L12 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS

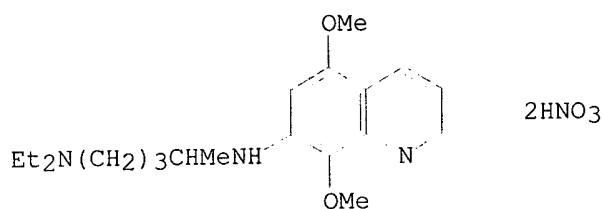
AN 1977:433436 HCAPLUS

DN 87:33436

TI In search of anti-Trypanosoma cruzi drugs: new leads from a mouse model

AU Kinnamon, Kenneth E.; Steck, Edgar A.; Hanson, William L.; Chapman, Willie L., Jr.

CS Div. Med. Chem., Walter Reed Army Inst. Res., Washington, DC, USA
 SO Journal of Medicinal Chemistry (1977), 20(6), 741-4
 CODEN: JMCMAR; ISSN: 0022-2623
 DT Journal
 LA English
 CC 1-3 (Pharmacodynamics)
 GI



AB Nine of 25 compds. selected from >200,000 chems. had significant suppressive activity against parasites in the blood of a T. cruzi mouse model. Five 8-aminoquinoline derivs., a 7-aminoquinoline deriv. (I) [62658-31-5], p-methylbenzyltriphenylphosphonium chloride [1530-37-6], and trans-5-amino-3-[2-(5-nitro-2-furyl)vinyl]-1,2,4-oxadiazole [28754-68-9] had activity .gtoreq. nifurtimox. For the 1st time, suppressive activity against T. cruzi has been reported for a 7-aminoquinoline deriv., a phosphonium salt, and tris(4-aminophenyl)carbonium pamotate [2706-47-0].

ST trypanosomacide screen mouse model; aminoquinoline trypanosomacide; phosphonium salt trypanosomacide

IT Trypanosomicides
 (mouse model for screening of)

IT Mouse
 (trypanosomacide screening in, as model)

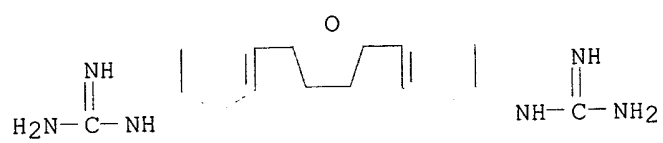
IT Molecular structure-biological activity relationship
 (trypanocidal, mouse model for screening of)

IT 52-52-8 703-95-7 14769-73-4 21738-42-1 21873-45-0 50823-61-5
 51123-83-2 60368-04-9 60504-61-2 **62658-26-8** 62658-27-9
 62658-29-1
 RL: BIOL (Biological study)
 (as trypanosomacide)

IT 1530-37-6 2706-47-0 28754-68-9 62658-17-7 62658-18-8 62658-20-2
 62658-21-3 62658-22-4 62658-23-5 62658-25-7 62658-31-5
 62705-19-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (trypanosomacidal activity of)

IT **62658-26-8**
 RL: BIOL (Biological study)
 (as trypanosomacide)

RN 62658-26-8 HCAPLUS
 CN Guanidine, N,N''''-[(tetrahydro-2,5-furandiyl)di-4,1-phenylene]bis-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl